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### **Criterion no: 6.5.2**

**Criterion Details:** The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities.

S. No.	Particulars	Annexure No.
1.	Minutes of Meeting (MOM) • IQAC Committee	Annexure - I
2.	MOU with Activity	Annexure - II
3.	Sample of CO & PO Attainment	Annexure - III
4.	Workshop on Research Paper Writing	Annexure - IV
5.	Research Policy	Annexure - V
6.	Waste Management Policy	Annexure – VI
7.	Sample of Add On Certificates	Annexure - VII
8.	Screenshot of ALMA Connect Portal	Annexure – VIII
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# **Minutes of Meeting (MOM)**

Ref. No.: Tula's/IQAC/0922/02

Date: 10-09-2022

## NOTICE

This is to inform you that the 33<sup>rd</sup> meeting of IQAC will be held at IQAC Room at 03:00 pm on 12-09-2022.  
All the IQAC committee members are requested to attend the meeting.

The agenda points for the following meeting are as follows:

- IQAC.33.01: Confirmation of minutes of meeting of 32<sup>nd</sup> IQAC Meeting.
- IQAC.33.02: Discussion on Class Monitoring by the Dean's, HoD's.
- IQAC.33.03: Discussion on Innovation in the teaching and learning process and its implementation.
- IQAC.33.04: Discussion on course file collection & evaluation for the previous year.
- IQAC.33.05: Discussion on the conduction of departmental activity (Workshop / Industrial Visits and Expert talk).
- IQAC.33.06: Discussion on Library book Procurement for new students and ask for new book titles.
- IQAC.33.07: Reconstitution / restructuring of PERC/ICC / Proctorial members for all academic departments.
- IQAC.33.08: Recommendation of Faculty Teaching feedback.  
(Discussion on the feedback mechanism of the faculty members teaching various courses)
- IQAC.33.09: Discussion on the activities to be conducted by Committee Extension.
- IQAC.33.10: Examination Committee formation approval.
- IQAC.33.11: Updating the department's vision, mission, PEO, and PSOs for all academic departments.
- IQAC.33.12: Verification of the updated course outcomes by course coordinators.
- IQAC.33.13: Discussion on the conduction of the Alumni meet Retrace for the session 2022-23.
- IQAC.33.14: Discussion on the purchase of ERP software for the institute.
- IQAC.33.15: Discussion on the preparation of the international conference IEEE- ICACCM 2022
- IQAC.33.16: Discussion on the conduction of placement activities as per the finalized placement calendar.
- IQAC.33.17: Any other matter with the permission of the chair.

*Chairman*  
Co-ordinator, IQAC  
TULA'S INSTITUTE  
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### Copy to:

- Director: for information please
- All IQAC Committee Members

### Vision

- To emerge as an academic centre producing world class professionals promoting innovation and research.

### Mission:

- To promote intellectual and skilled human capital generation employment and entrepreneurship.
- To be educational centre of excellence of multi ethnicity and diversity.
- To establish as technology driven teaching learning institution.
- To provide world class platform for research and innovation.
- To inculcate social, environmental, heritage values.

 Dhooplak, P.O. Selagur, Chakrata Road Dehradun - 248011 (U.K. India)

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 0135-2699300

 0135-2699309

*Director*  
**Tula's Institute, Dehradun**

## 33<sup>rd</sup> Meeting of IQAC (Minutes of Meetings)

Date/Time	12/09/2022/3:00PM	
Venue:	IQAC Room	
Minutes taken by:	Ms. Samiksha	
Chairperson	Dr. Sandip Vijay	
Attendee:	Dept. & Designation	Signature
Dr. Sandip Vijay	Director	
Dr. Nishant Saxena	IQAC Coordinator	
Dr. Pavan Kumar Chaubey	Registrar	
Dr. Ranit Kishor.	Dean Management & B.Sc. Agriculture	
Dr. R.B. Singh	HOD, CSE	
Mr. Mukesh Pathela	HOD, Applied Science	
Mr. Ankur Gurjar	HOD, CE	
Mr. Abhishek Chakravorty	HOD, ECE/EEE	
Dr. Sunil Semwal	Dean R&D	
Mr. Ankit Jain	HOD, ME	
Dr. Anita Chauhan	HOD, Agriculture	
Dr. K. R. Ansari	HOD, Management	
Dr. R.C. Pathak	HOD, BJMC	
Mr. Vaibhav Kumar	TPO	
Dr. Prerna Badoni	Chairperson, ICC Committee	
Mr. Brajendra Kr. Sharma	Chairperson, Feedback committee	
Dr. Sachin Kumar	Chief Proctor	
Dr. Deepak Aggarwal	AS, ACOE	
Mr. Abhishek Sharma	Senior Librarian	
Mr. Arun Kumar	External Member	
Mr. Divyanshu Gupta	Alumni Member	
Mr. Nikhil Mathur	Student Member IQAC	

Director  
Tula's Institute, Dehradun

Absent:	Reason			
Agenda:				
Issues	Actions			
	No.	Actionee	Due Date	
IQAC.33.01: Confirmation of minutes of meeting of 32 <sup>th</sup> IQAC Meeting.	1	Coordinator IQAC	12/9/22	
IQAC.33.02: Discussion on Class Monitoring by the Dean's, HoD's.	2	All HoD's	20/9/22	
IQAC.33.03: Discussion on Innovation in the teaching and learning process and its implementation.	3	All HoD's	26/9/22	
IQAC.33.04: Discussion on course file collection & evaluation for the previous year.	4	All HoD's	07/10/22	
IQAC.33.05: Discussion on the conduction of departmental activity (Workshop / Industrial Visits and Expert talk).	5	All HoD's	20/9/22	
IQAC.33.06: Discussion on Library book Procurement for new students and ask for new book titles.	6	Librarian	20/9/22	
IQAC.33.07: Reconstitution / restructure of PERC/ICC / Proctorial members for all academic departments.	7	Committee Head's	—	
IQAC.33.08: Recommendation of Faculty Teaching feedback. (Discussion on the feedback mechanism of the faculty members teaching various courses)	8	Mr.B.K. Sharma	October 2022	
IQAC.33.09: Discussion on the activities to be conducted by Committee Extension.	9	Mr. Emmanuel Gabriel	15/9/22	
IQAC.33.10: Examination Committee formation approval.	10	Exam controller	15/9/22	
IQAC.33.11: Updating the department's vision, mission, PEO, and PSOs for all academic departments.	11	All HoD's	30/9/22	
IQAC.33.12: Verification of the updated course outcomes by course coordinators.	12	All HoD's	15/9/22	
IQAC.33.13: Discussion on the conduction of the Alumni meet for the session 2022-23.	13	TPO	—	
IQAC.33.14: Discussion on the purchase of ERP software for the institute.	14	Coordinator IQAC	—	
IQAC.33.15: Discussion on the preparation of the international conference IEEE- ICACCM 2022.	15	Dean R&D	November 2022	
IQAC.33.16: Discussion on the conduction of placement activities as per the finalized placement calendar.	16	TPO	30/9/22	
IQAC.33.17: Any other matter with the permission of the chair.	17	NA	—	

*Abhay*  
Director  
Tula's Institute, Dehradun

### Discussions/ Resolutions:

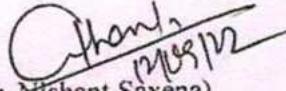
1. The minutes of the 32nd IQAC Meeting were reviewed and confirmed by all attendees without any objections.
2. Various strategies for effective class monitoring during the odd semester were discussed. It was decided to implement a system of regular classroom observations and student feedback mechanisms to ensure quality education delivery.
3. Ideas for fostering innovation in the teaching and learning process were exchanged. It was agreed to encourage faculty members to incorporate innovative teaching methods and technologies in their classrooms to enhance student engagement and learning outcomes.
4. The process of course file evaluation for the first cycle was discussed, and suggestions for improvement were put forward. It was decided to streamline the evaluation process and provide adequate training to the faculty members involved.
5. Plans for departmental activities such as workshops, industrial visits, and expert talks were discussed. It was agreed to organize a series of workshops and invite industry experts for talks to enrich the learning experience of students.
6. The procurement of library books for new students and suggestions for new book titles were discussed. It was decided to assess the current needs of students and acquire relevant books accordingly.
7. The reconstitution and restructuring of PERC/ICC/Proctorial members for all academic departments were discussed. It was decided to review the existing structure and make necessary adjustments to ensure effective functioning.
8. The feedback mechanism for faculty teaching various courses was discussed. It was agreed to implement a comprehensive feedback system to gather input from students and peers for faculty evaluation and improvement.
9. Plans for activities to be conducted by the Committee Extension were discussed. It was decided to organize outreach programs and community engagement initiatives to foster collaboration with external stakeholders.
10. The formation of the Examination Committee was approved unanimously.
11. The updating of the department's vision, mission, PEOs, and PSOs for all academic departments was discussed. It was decided to review and revise the statements to align with the current objectives and goals.
12. The verification of the updated course outcomes by course coordinators was discussed. It was agreed to ensure that the course outcomes are clearly defined, measurable, and aligned with program objectives.
13. Plans for the conduction of the Alumni meet for the session 2022-23 were discussed. It was decided to organize the event to facilitate networking among alumni and provide opportunities for professional development.
14. It was decided that the in-house ERP software would be purchased and implemented from the current session.



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15. Preparations for the International conference IEEE ICACCM 2022 were discussed. It was decided to form organizing committees and initiate planning activities to ensure the success of the conference.
16. The meeting commenced with a review of the finalized placement calendar. Participants discussed the various placement activities outlined in the calendar, including job fairs, campus recruitment drives, and industry interaction sessions. Concerns were raised regarding the scheduling of events to ensure maximum student participation and engagement.
17. Additional matters were raised and discussed with the permission of the chair.

The meeting concluded with action items assigned to relevant individuals or committees for follow-up. The next meeting date and agenda items were also proposed for consideration.

  
(Dr. Nishant Saxena)  
Co-ordinator, IQAC  
TULA'S INSTITUTE  
DEHRADUN

Copy to:  
All actionee: for necessary action



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## ACTION TAKEN REPORT

The action taken report of 33rd meeting of IQAC Committee (agenda item wise) held on 12/09/2022 is as follows:

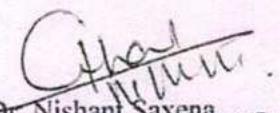
1. Reference agenda point IQAC.33.01: The minutes of the 32nd IQAC Meeting were reviewed and confirmed without any objections from the attendees.
2. Reference agenda point IQAC.33.02: Implemented a system for regular classroom observations and student feedback mechanisms to assure the quality of education delivery.
3. Reference agenda point IQAC.33.03: Encouraged faculty members to adopt innovative teaching methods and technologies to improve student engagement and learning outcomes.
4. Reference agenda point IQAC.33.04: The evaluation process for course files for the first cycle will be streamlined, and faculty members involved will receive adequate training for improvement.
5. Reference agenda point IQAC.33.05: Organized workshops, industrial visits, and expert talks to enrich students' learning experiences. Industry experts have been invited for upcoming sessions.
6. Reference agenda point IQAC.33.06: Enhanced the library's collection based on the needs of new students and faculty recommendations, ensuring access to the latest resources and literature.
7. Reference agenda point IQAC.33.07: Reviewed and adjusted the structure of PERC/ICC/Proctorial bodies across all academic departments to ensure their effective functioning.
8. Reference agenda point IQAC.33.08: Implemented a comprehensive feedback system for faculty, incorporating student and peer inputs for faculty evaluation and improvement.
9. Reference agenda point IQAC.33.09: Planned and set to organize outreach programs and community engagement initiatives, fostering collaboration with external stakeholders.
10. Reference agenda point IQAC.33.10: The formation of the Examination Committee was approved unanimously, and the committee has been constituted.
11. Reference agenda point IQAC.33.11: Initiated a review and revision of the department's vision, mission, PEOs, and PSOs to ensure alignment with current objectives and goals.



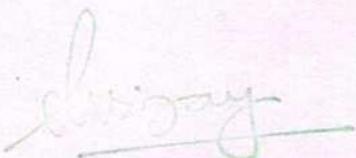
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12. Reference agenda point IQAC.33.12: Ensured that course outcomes are clearly defined, measurable, and aligned with program objectives through verification by course coordinators.
13. Reference agenda point IQAC.33.13: Planned the alumni meet to facilitate networking among alumni and provide professional development opportunities.
14. Reference agenda point IQAC.33.14: Decided to purchase and implement in-house ERP software starting from the current session 2022-23 to streamline administrative and academic processes.
15. Reference agenda point IQAC.33.15: Soft skill training is provided to students. On Campus Drives are conducted for final year students.
16. Reference agenda point IQAC.33.15: Formed organizing committees and initiated planning for the successful conduct of the international conference IEEE ICACCM 2022.

**Additional Matters:** Any additional matters raised and discussed with the permission of the chair will be addressed accordingly.



Dr. Nishant Saxena  
Co-ordinator, IQAC  
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Tula's Institute, Dehradun

Ref. No.: Tula's/IQAC/1222/02

Date: 15.12.2022

### NOTICE

This is to inform you that the 34<sup>th</sup> meeting of IQAC will be held at IQAC Room at 03:00 pm on 20-12-2022. All the IQAC committee members are requested to attend the meeting.

The agenda points for the following meeting are as follows:

- IQAC.34.01: Confirmation of minutes of the 33<sup>rd</sup> IQAC Meeting.
- IQAC.34.02: To discuss the Feedback Collected form on Teaching & Learning and finalize the feedback form format for the program exits students in Odd Sem 2022-23.
- IQAC.34.03: Discussion on the strategy to connect alumni students on the new alumni portal and conduct of Alumni meetings for the session.
- IQAC.34.04: To discuss the involvement of alumni to help students understand corporate culture and skill required in it.
- IQAC.34.05: Reconstitution and conduction of the Energy audit and Environment audit for the session 2022-23 with the help of external agencies.
- IQAC.34.06: Discussion on the renewal of Hard journals and update library software from Libsys to KOHA Cloud Base.
- IQAC.34.07: Discussion on the format for the budget requirement from the individual departments for the next session.
- IQAC.34.08: Social awareness session for female students of the current session (ODD SEM 2022-23) and action taken.
- IQAC.34.09: Discussion on the proposal of the National level hackathon and events to promote the development of the start-up ecosystem for the current session.
- IQAC.34.10: Discussion on the signing MoU between the institute and Skillstone for the upliftment of the students.
- IQAC.34.11: Discussion on the review of the construction of the newly built classrooms in E, F, G Blocks and allotment of these spaces for the next session.
- IQAC.34.12: Discussion on the purchase of CAMU ERP software.
- IQAC.34.13: Discussion on the conduction of Internal audit of all academic departments.
- IQAC.34.14: Any other matters from departments with the permission of the chair.

(Dr. Nishant Saxena)  
Co-ordinator, IQAC  
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All IQAC Committee Members

Director  
Tula's Institute, Dehradun

**Vision**

- To emerge as an academic centre producing world class professionals promoting innovation and research.

**Mission:**

- To promote intellectual and skilled human capital generation employment and entrepreneurship.
- To be educational centre of excellence of multi ethnicity and diversity.
- To establish as technology driven teaching learning institution.
- To provide world class platform for research and innovation.
- To inculcate social, environmental, heritage values.

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### 34<sup>th</sup> Meeting of IQAC (Minutes of Meetings)

Date/Time	20/12/2022/3:00PM	
Venue:	IQAC Room	
Minutes taken by:	Ms. Samiksha	
Chairperson	Dr. Nishant Saxena	
Attendee:	Dept. & Designation	Signature
Dr. Raghav Garg	Vice President Technology	
Dr. Nishant Saxena	IQAC Coordinator	
Dr. Pavan Kumar Chaubey	Registrar	
Dr. Ranit Kishor.	Dean Management & B.Sc. Agriculture	
Dr. Sunil Semwal	Dean R&D	
Dr. R.B. Singh	HOD, CSE	
Mr. Mukesh Pathela	HOD, Applied Science	
Mr. Ankur Gurjar	HOD, CE/Chief Proctor	
Mr. Abhishek Chakravorty	HOD, ECE/EEE	
Mr. Ankit Jain	HOD, ME	
Dr. Anita Chauhan	HOD, Agriculture	
Dr. K. R. Ansari	HOD, Management	
Dr. R.C. Pathak	HOD, BJMC	
Dr. Prerna Badoni	Chairperson, ICC Committee	
Mr. Brajendra Kr. Sharma	Chairperson, Feedback committee	
Mr. Vaibhav Kumar	TPO	
Dr. Lalit Goyal	AS, ACOE	
Mr. Abhishek Sharma	Senior Librarian	
Mr. Arun Kumar	External Member	
Mr. Divyanshu Gupta	Alumni Member	
Mr. Nikhil Mathur	Student Member IQAC	
Absent:	Reason	

Director  
Tula's Institute, Dehradun

*Divyanshu*

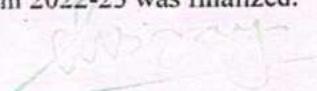
**Agenda:**

**IQAC Meeting**

<b>Issues</b>	<b>Actions</b>		
	<b>No.</b>	<b>Actionee</b>	<b>Due Date</b>
IQAC.34.01: Confirmation of minutes of the 33rd IQAC Meeting.	1	Coordinator IQAC	20/12/2022
IQAC.34.02: To discuss the Feedback Collected form on Teaching & Learning and finalize the feedback form format for the program exit students in Odd Sem 2022-23.	2	All HoD's	05/01/2023
IQAC.34.03: Discussion on the strategy to connect alumni students on the new alumni portal and conduct of Alumni meetings for the session.	3	TPO	—
IQAC.34.04: To discuss the involvement of alumni to help students understand corporate culture and skill required in it.	4	All HoD's	—
IQAC.34.05: Reconstitution and conduction of the Energy audit and Environment audit for the session 2022-23 with the help of external agencies.	5	Mr. Abhishek Chakravorty	May - 2023
IQAC.34.06: Discussion on the renewal of Hard journals and update library software from Libsys to KOHA Cloud Base.	6	Librarian	April - 2023
IQAC.34.07: Discussion on the format for the budget requirement from the individual departments for the next session.	7	All HoD's	09/01/2023
IQAC.34.08: Social awareness session for female students of the current session (ODD SEM 2022-23) and action taken. (MOM-33)	8	ICC	—
IQAC.34.09: Discussion on the conduction of the National level hackathon and conduction of events to promote the development of the start-up ecosystem for the current session.	9	CSE HoD	March - 2023
IQAC.34.10: Discussion on the signing MoU between the institute and Skill stone for the upliftment of the students.	10	TPO	Feb - 2023
IQAC.34.11: Discussion on the review of the construction of the newly built classrooms in E, F, G Blocks and allotment of these spaces for the next session.	11	Registrar	—
IQAC 34.12: Discussion on the purchase of CAMU ERP software.	12	Coordinator IQAC	—
IQAC 34.13: Discussion on the conduction of Internal audit of all academic departments.	13	All HoD's	13/01/2023
IQAC.33.14: Any other matter with the permission of the chair.	14	NA	—

**Discussions/ Resolutions:**

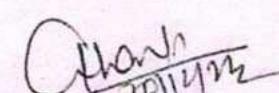
1. The minutes of the 33rd IQAC Meeting were reviewed and confirmed by all attendees without any objections.
2. Feedback collected on teaching and learning was discussed, and the format for the feedback form for program exit students in Odd Sem 2022-23 was finalized.

  
**Director**  
**Tula's Institute, Dehradun**

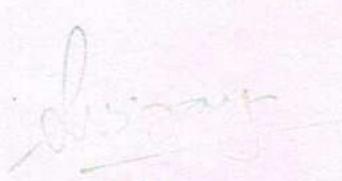
3. Strategies to connect alumni students on the new alumni portal and plans for the conduction of the Alumni meet for the session were discussed.
4. The involvement of alumni to help students understand corporate culture and required skills was discussed, and plans were made to engage alumni in relevant activities.
5. Plans for the reconstitution and conduction of the Energy audit and Environment audit for the session 2022-23 with the assistance of external agencies were discussed.
6. The renewal of hard journals and the update of library software from Libsys to KOHA Cloud Base were discussed, and necessary actions were planned.
7. The format for the budget requirement from individual departments for the next session was discussed and finalized.
8. Plans for social awareness sessions for girl students of the current session (ODD SEM 2022-23) were discussed, and actions taken were reviewed.
9. Discussion and Plans for the conduction of the National level hackathon and events to promote the development of the start-up ecosystem for the current session were discussed.
10. Discussion on the signing of MoU between the institute and Skillstone for the upliftment of the students was held, and necessary steps were outlined.
11. The review of the construction of the newly built classrooms in E, F, G Blocks, and the allotment of these spaces for the next session were discussed.
12. After a thorough analysis of all the ERP software, management, and top officials have decided to purchase CAMU software to smoothen the academic process.
13. It was discussed the importance of conducting regular internal audits to assess the effectiveness of academic processes, compliance with regulations, and the overall quality of educational delivery. Concerns were raised regarding the methodology and criteria to be used for the internal audit, ensuring fairness and objectivity in the assessment process.
14. Additional matters were raised and discussed with the permission of the chair.

The meeting concluded with action items assigned to relevant individuals or committees for follow-up. The next meeting date and agenda items were also proposed for consideration.

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All actionee: for necessary action



(Dr. Nishant Saxena)  
Co-ordinator, IQAC  
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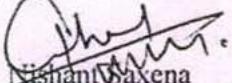
Director  
Tula's Institute, Dehradun

## ACTION TAKEN REPORT

The action taken report of 34th meeting of IQAC Committee (agenda item wise) held on 20/12/2022 is as follows:

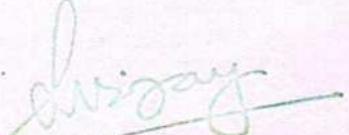
1. Reference agenda point IQAC.34.01: The action taken report of the previous 33th IQAC meeting held on 12/09/2022 was read out, discussed the follow-up action on its resolutions and minutes of previous meeting were confirmed.
2. Reference agenda point IQAC.34.02: A detailed discussion was held on the feedback collected regarding Teaching & Learning. The committee agreed on a finalized format for the feedback form for program exit students for Odd Sem 2022-23, ensuring it covers essential aspects of the learning experience.
3. Reference agenda point IQAC.34.03: A strategy was developed to enhance alumni engagement through the new alumni portal. Plans for conducting alumni meetings were laid out, focusing on maximizing participation and interaction.
4. Reference agenda point IQAC.34.04: It was decided to involve alumni in interactive sessions with current students to share insights into corporate culture and the skills required therein. This initiative aims to bridge the gap between academic learning and practical applications in the workplace.
5. Reference agenda point IQAC.33.05: The committee resolved to reconstitute and conduct both energy and environment audits for the session 2022-23 with the assistance of external agencies, ensuring compliance with sustainability goals and regulations.
6. Reference agenda point IQAC.33.06: After thorough discussion, the committee agreed on the renewal of hard journal subscriptions and updating the library management software from Libsys to KOHA Cloud Base, enhancing library operations and accessibility.
7. Reference agenda point IQAC.33.07: A standardized format for submitting budget requirements by individual departments for the next session was discussed, agreed upon, and circulated among department heads, aiming for a more streamlined and efficient budgeting process.
8. Reference agenda point IQAC.33.08: A social awareness session for female students was conducted successfully. The session's effectiveness and impact were reviewed, leading to the planning of future sessions accordingly.
9. Reference agenda point IQAC.33.09: As discussed in IQAC meeting the conduction of national level hackathon (24 hours) to be held on (date) and for this event preparation are in progress.
10. Reference agenda point IQAC.33.10: The signing of an MoU with Skill Stone was discussed, focusing on how the collaboration could benefit students in terms of skill development and employment opportunities. The committee reviewed the terms and potential outcomes of the MoU.

11. Reference agenda point IQAC.33.11: The committee reviewed the construction status of the newly built classrooms in blocks E, F, and G. Plans for the allocation and utilization of these spaces for the next session were finalized, ensuring optimal use of the new facilities.
12. Reference agenda point IQAC.33.12: After evaluating the benefits and features of the CAMU ERP software, the committee decided to proceed with its purchase. This decision aims to enhance administrative efficiency and academic management within the institution.
13. Reference agenda point IQAC.33.13: Observation of academic, Lab, And library audit has been sent to all HoD for submitting their compliance report. The compliance report will be placed at the next IQAC meeting.
14. Reference agenda point IQAC.33.14: There was no issue raised by any member in the meeting, therefore the meeting concluded with a word of thanks to all.



Dr. Nishant Saxena

Co-ordinator, IQAC  
TULA'S INSTITUTE  
DEHRADUN



Shivay

Director  
Tula's Institute, Dehradun

Ref. No.: Tula's/IQAC/0223/01

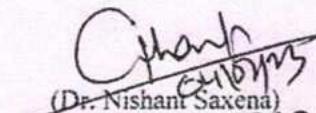
Date: 04-02-2023

### NOTICE

This is to inform you that the 35<sup>th</sup> meeting of IQAC will be held at IQAC Room at 01:00 pm on 07-02-2023. All the IQAC committee members are requested to attend the meeting.

The agenda points for the following meeting are as follows:

- IQAC.35.01: Confirmation of minutes of meeting of 34<sup>th</sup> IQAC Meeting.
- IQAC.35.02: Discussion on class monitoring and innovation in the teaching and learning process.
- IQAC.35.03: Discussion on the implementation of the actions on Internal audit conducted by the departments.
- IQAC.35.04: Discussion on finalizing the question paper format for the 1<sup>st</sup> CIE.
- IQAC.35.05: Discussion on the review of the AQAR of NAAC in both qualitative and quantitative.
- IQAC.35.06: Discussion on preparation and conduction of annual cultural fest "Sanskriti" and also, discussion on Alumni meet to be conducted in April -May 2023.
- IQAC.35.07: Organization of one day K- Nimbus training program for the library staff members.
- IQAC.35.08: Discussion on the organization of the National level Hackathon to be conducted by CSE department and discussed the key point for developing the startup ecosystem.
- IQAC.35.09: Proposal to Extension Committee for Women's Week Celebration.
- IQAC.35.10: Discussion on the conduction of Environments, Green & Energy audit with the help of an external agency (Quality Research Organization)
- IQAC.35.11: Discussion on the increase in the team members of the admission committee for the session 2023-24
- IQAC.35.12: Discussion on the organization of summer internships for pre-final year students.
- IQAC.35.13: Any other matters from departments with the permission of the chair.



(Dr. Nishant Saxena)  
Co-ordinator, IQAC  
TULA'S INSTITUTE  
DEHRADUN

Copy to:

- Director : for information please
- All IQAC Committee Members

#### Vision

- To emerge as an academic centre producing world class professionals promoting innovation and research.

#### Mission:

- To promote intellectual and skilled human capital generation employment and entrepreneurship.
- To be educational centre of excellence of multi ethnicity and diversity.
- To establish as technology driven teaching learning institution.
- To provide world class platform for research and innovation.
- To inculcate social, environmental, heritage values.

**Director**  
**Tula's Institute, Dehradun**

 Dhanikot, P.O. Selagai, Chokkata Road  
Dehradun - 248011 (Uttarakhand, India)

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 0135-2699300  
0135-2699309

### 35<sup>th</sup> Meeting of IQAC (Minutes of Meetings)

Date/Time	07/02/2023/01:00PM	
Venue:	IQAC Room	
Minutes taken by:	Ms. Samiksha	
Chairperson	Dr. Anil Kumar Dhaiya	
Attendee:	Dept. & Designation	Signature
Dr. Nishant Saxena	IQAC Coordinator	
Dr. Pavan Kumar Choubey	Registrar	
Dr. Ranit Kishor.	Dean Management & B.Sc. Agriculture	
Dr. Sunil Semwal	Dean R&D	
Dr. R.B. Singh	HOD, CSE	
Mr. Mukesh Pathela	HOD, Applied Science	
Mr. Ankur Gurjar	HOD, CE/Chief Proctor	
Mr. Abhishek Chakravorty	HOD, ECE/EEE	
Mr. Ankit Jain	HOD, ME	
Dr. Anita Chauhan	HOD, Agriculture	
Dr. K. R. Ansari	HOD, Management	
Dr. R.C. Pathak	HOD, BJMC	
Dr. Prerna Badoni	Chairperson, ICC Committee	
Mr. Brajendra Kr. Sharma	Chairperson, Feedback committee	
Mr. Vaibav Kumar	TPO	
Dr. Lalit Goyal	AS, ACOE	
Mr. Abhishek Sharma	Senior Librarian	
Mr. Arun Kumar	External Member	
Mr. Divyanshu Gupta	Alumni Member	
Mr. Nikhil Mathur	Student Member IQAC	
Absent:	Reason	
Agenda:		

**IQAC Meeting**

Issues	Actions		
	No.	Actionee	Due Date
IQAC.35.01 - Confirmation of minutes of meeting of 34 <sup>th</sup> IQAC Meeting.	1	Coordinator IQAC	7/2/2023
IQAC.35.02 - Discussion on the class monitoring and innovation in the teaching and learning process.	2	All HoD's	15/2/23
IQAC.35.03 - Discussion on the implementation of the actions on Internal audit conducted by the departments.	3	All HoD's	20/4/23
IQAC.35.04 - Discussion on finalizing the question paper format for the 1 <sup>st</sup> CIE.	4	Exam Controller	20/3/23
IQAC.35.05 – Discussion on the review of the AQAR of NAAC in both qualitative and quantitative	5	Coordinator IQAC	24/2/23
IQAC.35.06 - Discussion on preparation and conduction of annual cultural fest "Sanskriti "and discussion on Alumni meet to be conduct 1 in April -May 2023.	6	Mr. Emmanuel Gabriel	-
IQAC.35.07 – Organization of one day K- Nimbus training program for the library staff members.	7	Sr. Librarian	28/2/23
IQAC.35.08 - Discussion on the organization of the National level Hackathon to be conducted by CSE department and discussed the key point for developing the startup ecosystem.	8	CSE HoD	25/4/23
IQAC.35.09 - Proposal to Extension Committee for Women's Week Celebration.	9	Mr. Emmanuel Gabriel/ICC	08/3/23
IQAC.35.10 – Discussion on the conduction of Environments, Green & Energy audit with the help of an external agency (Quality Research Organisation).	10	Mr. Abhishek Chakravorty	April 2023
IQAC.35.11- Discussion on the increase in the team members of the admission committee for the session 2023-24	11	TPO	April 2023
IQAC.35.12- Discussion on the organization of summer internships for Pre-final year students.	12	TPO	15/2/23
IQAC.35.11- Any other matters from departments with the permission of the chair.	13	NA	-

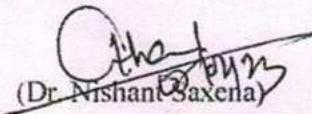
**Discussions/ Resolutions:**

1. The minutes of the 34th IQAC Meeting were confirmed with no objections raised.
2. Discussed various strategies for enhancing class monitoring and fostering innovation in the teaching and learning process. Members shared ideas and agreed to implement a trial of new methods.
3. Reviewed the actions resulting from internal audits conducted by departments. Members discussed progress and identified areas needing further attention.
4. Considered different formats for the upcoming 1<sup>st</sup> CIE question papers. An agreement was reached on the finalized format to ensure fairness and clarity.

Director  
Tula's Institute, Dehradun

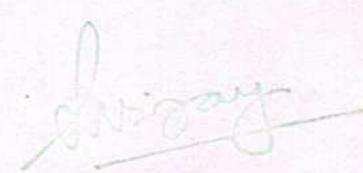
5. Reviewed the Annual Quality Assurance Report (AQAR) of NAAC in both qualitative and quantitative aspects. Identified strengths and areas for improvement.
6. Discussed arrangements for the annual cultural fest "Sanskriti" and plans for the Alumni meet scheduled for April-May 2023.
7. Approved the organization of a one-day K-Nimbus training program for library staff members to enhance their skills and efficiency.
8. Reviewed plans for organizing a National-level Hackathon by the CSE department and discussed key points for developing the startup ecosystem.
9. Presented a proposal to the Extension Committee for Women's Week Celebration, which was discussed and approved.
10. Agreed on conducting an Environmental, Green & Energy audit with the assistance of an external agency (Quality Research Organization) to ensure sustainability measures are in place.
11. The Chairperson Mr. Vaibav Kumar initiated the discussion by highlighting the necessity to expand the team members of the admission committee for the upcoming session 2023-24. Members shared their views on the current workload of the admission committee and the challenges faced due to the increasing number of applicants.
12. The Chairperson initiated the discussion on organizing summer internships for pre-final year students. Members discussed potential industry partners and the process of inviting them to offer internship opportunities.
13. Opened the floor for any other matters from departments. No issues were raised.

The meeting concluded with action items assigned to relevant individuals or committees for follow-up. The next meeting date and agenda items were also proposed for consideration.



(Dr. Nishant Saxena)  
Co-ordinator, IQAC  
TULA'S INSTITUTE  
DEHRADUN

Copy to:  
All actionee: for necessary action



Director  
Tula's Institute, Dehradun

### ACTION TAKEN REPORT

The action taken report of 35th meeting of IQAC Committee (agenda item wise) held on 07/02/2023 is as follows:

1. Reference agenda point IQAC.35.01: The action taken report of the previous 34th IQAC meeting held on 12/09/2022 was read out, discussed the follow-up action on its resolutions and minutes of previous meeting were confirmed.
2. Reference agenda point IQAC.35.02: PERC members were directed to monitor at least 2 classes of different faculty members on a daily basis. The same has been done reported on benchmark quality parameter.
3. Reference agenda point IQAC.35.03: Observation of academic, Lab, and library audit has been sent to all the Heads of the Department for submitting their compliance report. The compliance report will be placed in the next IQAC meeting.
4. Reference agenda point IQAC.35.04: The question paper format for the CIE-1 has been finalized, approved by the PERC and forwarded to examination control for the implementation.
5. Reference agenda point IQAC.35.05: All the heads of the departments and the institution ensured the Chair that they will supply the authentic data to IQAC for the review.
6. Reference agenda point IQAC.35.06: The annual cultural fest "Sanskriti "and discussion on Alumni meet successfully organized on 28 April 2023 (Retrace). The detailed report has been received and kept on record.
7. Reference agenda point IQAC.35.07: The One-day K-Nimbus training program for the Library department successfully organized on 27 Feb, 2023 The details of report have been received and kept in record.
8. Reference agenda point IQAC.35.08: The department of Computer Science and engineering has successfully organized HACKATHON on 20-21 April 2023. It will be helpful for creativity and innovations by encouraging participants to think outside the box to develop novel solutions.
9. Reference agenda point IQAC.35.09: The Women's week program was successfully organized on (date). A detailed report has been received and kept for the record.
10. Reference agenda point IQAC.35.10: The Environments, Green & Energy audit has been done. A detailed report has been received and kept for the record.
11. Reference agenda point IQAC.35.11: Suggestions/Recommendations were received from various heads of the institute. The suggestions are ready to discussion in the next IQAC meeting.
12. Reference agenda point IQAC.35.12: Organized industrial visit/study tour for the students.
13. Reference agenda point IQAC.35.13: There was no issue raised by any member in the meeting, therefore the meeting concluded with a word of thanks to all.

Co-ordinator, IQAC  
TULA'S INSTITUTE  
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Director  
Tula's Institute, Dehradun

### NOTICE

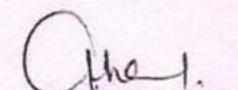
This is to inform you that the 36<sup>th</sup> meeting of IQAC will be held at IQAC Room at 04:00 pm on 08-05-2023. All the IQAC committee members are requested to attend the meeting.

The agenda points for the following meeting are as follows:

- IQAC.36.01: Confirmation of minutes of meeting of 35<sup>th</sup> IQAC Meeting.
- IQAC.36.02: Discussion on the final preparation of the annual cultural fest "Sanskriti".
- IQAC.36.03: Discussion on the syllabus coverage report and allotment of extra classes for the lagging courses
- IQAC.36.04: Discussion on the circulation of the Faculty Appraisal form among faculties as per Institute HR policy.
- IQAC.36.05: Discussion on the Budget preparation of each department for the next academic year 2023-24
- IQAC.36.06: Discussion on the Lab Audit for the maintenance and procurement of the lab equipment.
- IQAC.36.07: Discussion on the organization of the orientation program for newly admitted students for the upcoming session 2023-24.
- IQAC.36.08: Discussion on the increase in seats in different courses and introduction of a new specialization branch of CSE by the admission cell.
- IQAC.36.09: Preparation of the training & placement activity calendar for session 2023-24.
- IQAC.36.10: Discussion on the conduction of more activities related to awareness and empowerment of girls/women.
- IQAC.36.11: Discussion on the initialization of the NBA accreditation process for the program B. Tech Computer Science & Engineering.
- IQAC.36.12: Discussion on the collection of research data of faculty members and students of the current academic session.
- IQAC.36.13: Discussion on the analysis of the Alumni feedback, that was collected during the Retrace Alumni Meet 2023
- IQAC.36.14: Proposal for the new format of Action Taken Reports (ATR).
- IQAC.36.15: Any other matters from departments with the permission of the chair.

Copy to:

- Director: for information please
- All IQAC Committee Members

  
(Dr. Neeraj Singh)  
Co-ordinator, IQAC  
TULA'S INSTITUTE  
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#### Vision

- To emerge as an academic centre producing world class professionals promoting innovation and research.

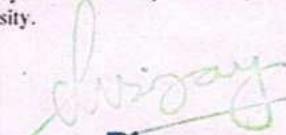
#### Mission:

- To promote intellectual and skilled human capital generation employment and entrepreneurship.
- To be educational centre of excellence of multi ethnicity and diversity.
- To establish as technology driven teaching learning institution.
- To provide world class platform for research and innovation.
- To inculcate social, environmental, heritage values.

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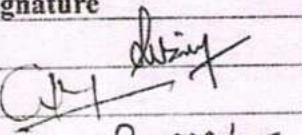
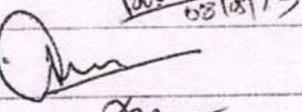
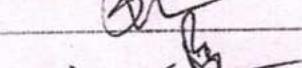
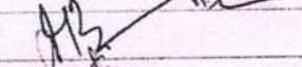
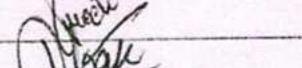
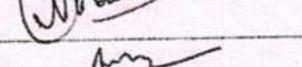
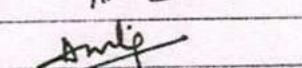
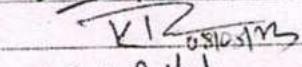
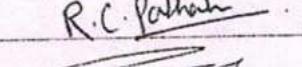
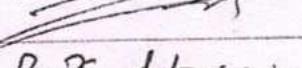
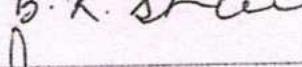
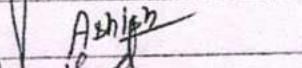
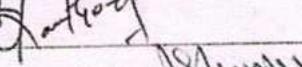
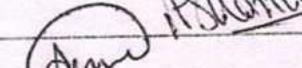
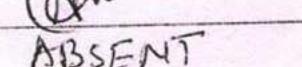
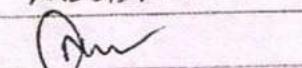
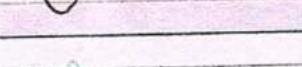
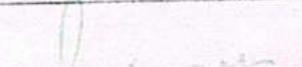
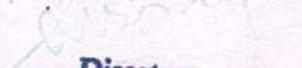
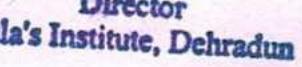
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**Director**  
**Tula's Institute, Dehradun**

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### 36<sup>th</sup> Meeting of IQAC (Minutes of Meetings)

Date/Time	08/05/2023/04:00PM	
Venue:	IQAC Room	
Minutes taken by:	Ms. Samiksha	
Chairperson	Dr. Sandip Vijay	
Attendee:	Dept. & Designation	Signature
Dr. Sandip Vijay	Director	
Dr. Nishant Saxena	IQAC Coordinator	
Dr. Pavan Kumar Chaubey	Registrar	
Dr. Ranit Kishor.	Dean Management & B.Sc. Agriculture	
Dr. Sunil Semwal	Dean R&D	
Dr. R.B. Singh	HOD, CSE	
Mr. Mukesh Pathela	HOD, Applied Science	
Ms. Preeti Kumari	HOD, CE	
Mr. Abhishek Chakravorty	HOD, ECE/EEE	
Mr. Ankit Jain	HOD, ME	
Dr. Anita Chauhan	HOD, Agriculture	
Dr. K. R. Ansari	HOD, Management	
Dr. R.C. Pathak	HOD, BJMC	
Dr. Prerna Badoni	Chairperson, ICC Committee	
Mr. Brajendra Kr. Sharma	Chairperson, Feedback committee	
Mr. Ashish Kumar	Chief Proctor	
Dr. Lalit Goyal	AS, ACOE	
Mr. Abhishek Sharma	Senior Librarian	
Mr. Arun Kumar	External Member	
Mr. Divyanshu Gupta	Alumni Member	
Mr. Nikhil Mathur	Student Member IQAC	
Absent:	Reason	

Director  
Tula's Institute, Dehradun

**Agenda:**

IQAC Meeting

Issues	Actions		
	No.	Actionee	Due Date
IQAC.36.01: Confirmation of minutes of meeting of 35 <sup>th</sup> IQAC Meeting.	1	Coordinator IQAC	31/05/2023
IQAC.36.02: Discussion on the final preparation of the annual cultural fest "Sanskriti".	2	Mr. Emmanuel Gabriel/All HoD's	—
IQAC.36.03: Discussion on the syllabus coverage report and allotment of extra classes for the lagging courses	3	All HoD's	09/05/2023
IQAC.36.04: Discussion on the circulation of the Faculty Appraisal form among faculties as per Institute HR policy.	4	HR/ All HoD's	25/05/2023
IQAC.36.05: Discussion on the Budget preparation of each department for the next academic year 2023-24	5	All HoD's	June - 2023
IQAC.36.06: Discussion on the Lab Audit for the maintenance and procurement of the lab equipment.	6	All HoD's	July - 2023
IQAC.36.07: Discussion on the organization of the orientation program for newly admitted students for the upcoming session 2023-24.	7	Mr. Emmanuel Gabriel/All HoD's	July - 2023
IQAC.36.08: Discussion on the increase in seats in different courses and introduction of a new specialization branch of CSE by the admission cell.	8	Registrar/Coordinator IQAC	Aug. - 2023
IQAC.36.09: Preparation of the training & placement activity calendar for the session 2023-24.	9	TPO	August - 2023
IQAC.36.10: Discussion on the conduction of more activities related to awareness and empowerment of girls/women.	10	ICC	July - 2023
IQAC.36.11: Discussion on the initialization of the NBA accreditation process for the program B. Tech Computer Science & Engineering.	11	CSE HoD	—
IQAC.36.12: Discussion on the collection of research data of faculty members and students of the current academic session.	12	Dean R&D	31/05/2023
IQAC.36.13: Discussion on the analysis of the Alumni feedback, that was collected during the Retrace Alumni Meet 2023.	13	TPO	15/05/2023
IQAC.35.14: Any other matters from departments with the permission of the chair.	14	NA	—

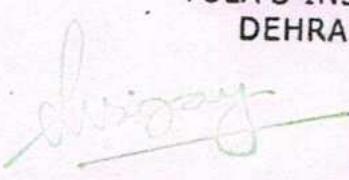
**Discussions/ Resolutions:**

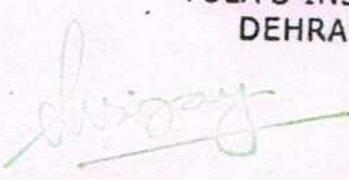
1. The minutes of the 35th IQAC Meeting were confirmed with no objections raised.
2. Reviewed the final preparations for the annual cultural fest "Sanskriti." Discussed logistics, performances, and necessary arrangements to ensure a successful event.

3. Discussed the syllabus coverage report and identified courses lagging behind. Agreed to allocate extra classes to ensure comprehensive coverage and maintain academic standards.
4. Reviewed the Institute HR policy regarding faculty appraisal and discussed the circulation of the Faculty Appraisal Form among faculties. Emphasized the importance of timely feedback for professional development.
5. Discussed budget preparation for each department for the next academic year 2023-24. Considered resource allocation, funding requirements, and strategic priorities.
6. Discussed the maintenance and procurement of lab equipment through a comprehensive lab audit. Identified areas needing attention and discussed strategies for improvement.
7. Discussed plans for organizing the orientation program for newly admitted students for the upcoming session 2023-24. Considered orientation content, scheduling, and logistical arrangements.
8. Discussed proposals for increasing seats in different courses and introducing a new specialization branch of CSE. Considered demand, infrastructure, and academic feasibility.
9. Prepared the training & placement activity calendar for the session 2023-24. Scheduled events, workshops, and recruitment drives to ensure effective placement opportunities for students.
10. Discussed plans to conduct more activities related to the awareness and empowerment of girls/women. Considered workshops, seminars, and campaigns to promote gender equality and inclusivity.
11. Discussed the initialization of the NBA accreditation process for the B.Tech Computer Science & Engineering program. Reviewed accreditation criteria and outlined steps for the accreditation process.
12. The Chairperson initiated the discussion on the collection of research data of faculty members and students for the current academic session like research papers, FDP's, Patents, MOOCs NPTEL certificates etc.
13. The Chairperson introduced the agenda item regarding the analysis of the Alumni feedback collected during the Retrace Alumni Meet 2023. The feedback data was reviewed, focusing on key areas such as curriculum relevance, teaching quality, infrastructure, and career support services.
14. Opened the floor for any other matters from departments. No further issues were raised.

The meeting concluded with action items assigned to relevant individuals or committees for follow-up. The next meeting date and agenda items were also proposed for consideration.

Copy to:  
All actionee: for necessary action

  
(Dr. Nishant Saxena)  
Co-ordinator, IQAC  
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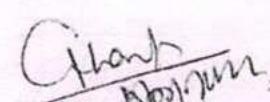
  
Director  
Tula's Institute, Dehradun

## ACTION TAKEN REPORT

The action taken report of 36<sup>th</sup> meeting of IQAC Committee (agenda item wise) held on 08/05/2023 is as follows:

1. Reference agenda point IQAC.36.01: As per the confirmation of MOM of 35<sup>th</sup> IQAC meeting the actions have been taken accordingly and mention in the 35<sup>th</sup> ATR.
2. Reference agenda point IQAC.36.02: The annual cultural fest "Sanskriti" and discussion on Alumni meet successfully organized on 11<sup>th</sup> & 12<sup>th</sup> May 2023. The detailed report has been received and kept on record.
3. Reference agenda point IQAC.36.03: Faculties are advised to spend more time organizing planned lectures and increasing the number of classes.
4. Reference agenda point IQAC.36.04: The self-Faculty Appraisal form has been circulated among the faculties and status will be presented in the next meeting.
5. Reference agenda point IQAC.36.05: The Budget preparation format for the academic year 2023-24 has been circulated with the head of the department.
6. Reference agenda point IQAC.36.06: Actions include scheduling regular maintenance checks and identifying needs for new equipment to enhance practical learning experiences.
7. Reference agenda point IQAC.36.07: The mandatory students induction program for newly admitted students will be conducted in the month of August 2023.
8. Reference agenda point IQAC.36.08: The proposal for increasing seats in various courses and introducing a new specialization in CSE was approved, with implementation steps outlined by the admission cell.
9. Reference agenda point IQAC.36.09: Training and Placement activities have been scheduled by the Training and Placement Officer (TPO), Mr. Vaibhav Kumar, accordingly.
10. Reference agenda point IQAC.36.10: An event "Women in Entrepreneurship Development" was organized on 16<sup>th</sup> May 2023 by ICC committee for
11. Reference agenda point IQAC.36.11: Chairperson proposed NBA Accreditation for the B. Tech Computer Science and Engineering. The suggestions are ready to discussion in the next IQAC meeting.
12. Reference agenda point IQAC.36.12: All the heads of the department ensure to submit the data to R&D cell.
13. Reference agenda point IQAC.36.13: The feedback form to be circulated and is to be presented in the next IQAC meeting that would be used from academic session 2022-23. The Feedback forms to collect feedback from stakeholders (Student, Faculty, Alumni, Employers and Parents) prepared by feedback committee.
14. Reference agenda point IQAC.36.14: There was no issue raised by any member in the meeting, therefore the meeting concluded with a word of thanks to all.

  
Director  
Tula's Institute, Dehradun

  
(Dr. Nishant Saxena)  
Co-ordinator, IQAC  
TULA'S INSTITUTE  
DEHRADUN

# **MOU with Activity**

**3.5.2 Number of functional MoUs with institutions, other universities, industries, corporate houses etc. during the year 2022-23**

S.No.	Organisation with which MoU is signed	Name of the institution/ industry/ corporate house	Year of signing MoU	Duration	List the actual activities under each MOU year wise	Number of students/teachers participated under MoUs
1	SV Powerlinks	SV Powerlinks	2022	1 Year	Student Internship	2
2	RRMI	RRMI	2022	1 Year	Student Internship	2
3	Slog Solutions Pvt Ltd	Slog Solutions Pvt Ltd	2022	1 Year	Student Internship	2
4	The Times Group	The Times Group	2022	1 Year	Student Internship	2
5	Maram Build Needs	Maram Build Needs	2022	1 Year	Student Internship	6
6	Amex India Consulting Pvt Ltd	Amex India Consulting Pvt Ltd	2022	1 Year	Student Internship	2
7	RN Gupta & Co Ltd	RN Gupta & Co Ltd	2022	1 Year	Student Internship	2
8	Plantica Foundation Dehradun	Plantica Foundation Dehradun	2022	1 Year	Workshop	55
9	IT Expert US	IT Expert US	2023	1 Year	Student Internship	2
10	TPC Global	TPC Global	2023	1 Year	Student Internship	2
11	Quiqr HR Group	Quiqr HR Group	2023	1 Year	Student Internship	2
12	Mobiloitte Group	Mobiloitte Group	2023	1 Year	Student Internship	5
13	Namami Gange	Namami Gange	2023	1 Year	Webinar	1



**Director  
Tula's Institute, Dehradun**

MEMORANDUM  
OF  
UNDERSTANDING  
BETWEEN

Tula's Institute Dehradun, Uttarakhand



AND  
RRMI TECHNOLOGIES PRIVATE LIMITED



*[Signature]*  
Director  
**Tula's Institute, Dehradun**

**TULAS INSTITUTE**  
**DHOOLKOT – DEHRADUN**

**MEMORANDUM OF UNDERSTANDING**

---

This Memorandum of Understanding (hereinafter called as the 'MOU') is  
Entered into on this 01 day of November Two Thousand Twenty Two

**BETWEEN**

**Tulas Institute Mehre Ka Gaon PO SelaquiDhoolkot Dehradun Uttarakhand 248011 - India** (hereinafter referred as 'First Party', the institution which expression, unless excluded by or repugnant to the subject or context shall include its successors - in-office, administrators and assigns).

**AND**

**RRMI TECHNOLOGIES PRIVATE LIMITED the Second Party**, and represented herein by its **Amit Agarwal, Director** (hereinafter referred to as "Second Party", company which expression, unless excluded by or repugnant to the subject or context shall include its successors - in-office, administrators and assigns).

(First Party and Second Party are hereinafter jointly referred to as 'Parties' and individually as 'Party')

Page 2 of 7

Director  
Tulas Institute, Dehradun

**WHEREAS:**

- A) First Party is a Higher Educational Institution named:

**Tula's Institute, Dehradun**

- B) First Party & Second Party believe that collaboration and co-operation between themselves will promote more effective use of each of their resources, and provide each of them with enhanced opportunities.
- C) The Parties intend to cooperate and focus their efforts on cooperation within area of Skill Based Training, Orientation on Education paradigms and Counselling.
- D) Both Parties, being legal entities in themselves desire to sign this MOU for advancing their mutual interest.
- E) **RRMI TECHNOLOGIES PRIVATE LIMITED**, the Second Party is engaged in Education and related fields
- F) **RRMI TECHNOLOGIES PRIVATE LIMITED**, the Second party is having its branch office at JAIPUR and working in the era of RAJASTHAN.

**NOW THEREFORE, IN CONSIDERATION OF THE MUTUAL PROMISES SET FORTH IN THIS MOU, THE PARTIES HERETO AGREE AS FOLLOWS:**

**CLAUSE 1 CO-OPERATION**

- 1.1 Both Parties are united by common interests and objectives, and they shall establish channels of communication and co-operation that will

*Jerry* Director  
Tula's Institute, Dehradun

promote and advance their respective operations within the Institution and its related wings. The Parties shall keep each other informed of potential Opportunities and shall share all information that may be relevant to secure additional opportunities for one another.

- 1.2 First Party and Second Party co-operation will facilitate effective utilization of the intellectual capabilities of the faculty of Second Party providing significant inputs to the students of First Party and developing suitable teaching / training systems, keeping in mind the needs of the industry.
- 1.3 The general terms of co-operation shall be governed by this MOU. The Parties shall cooperate with each other and shall, as promptly as is reasonably practical, enter into all relevant agreements, deeds and documents (the 'Definitive Documents') as may be required to give effect to the actions contemplated in terms of this MOU. The term of Definitive Documents shall be mutually decided between the Parties. Along with the Definitive Documents, this MOU shall represent the entire understanding as to the subject matter hereof and shall supersede any prior understanding between the Parties on the subject matter hereof.

## CLAUSE 2 SCOPE OF THE MoU

- 2.1 The budding graduates from the institutions could play a key role in technological up-gradation, innovation and competitiveness of an industry. Both parties believe that close co-operation between the two would be of major benefit to the student community to enhance their skills and knowledge.
- 2.2 Both Parties to obtain all internal approvals, consents, permissions, and licenses of whatsoever nature required for offering the Programs on the terms specified herein.

**2.3 Internships with Companies/Industry:** Second Party shall undertake various Internship programs of students admitted with first party and shall handover the progress back to first party. The structure of the report will be provided by the first party (Tula's Institute). The student's faculty mentor at (Tula's Institute) is to monitor the student's progress in terms of how the Internship Program fulfils his/her training goals. To this end, the faculty mentor undertakes to contact student regularly in order to observe the student's progress and visit him/her personally, if possible and needed.

**2.4 Guest Lectures:** Second Party to extend the necessary support to deliver guest lecturers to the students of the First Party on the technology trends and in house requirements.

### **CLAUSE 3 INTELLECTUAL PROPERTY**

**3.1** Nothing contained in this MOU shall, by express grant, implication, Estoppel or otherwise, create in either Party any right, title, interest, or license in or to the intellectual property (including but not limited to know-how, inventions, patents, copy rights and designs) of the other Party.

### **CLAUSE 4 VALIDITY**

**4.1** This Agreement will be valid until it is expressly terminated by either Party on mutually agreed terms of **one years**, during which period the Second Party, as the case may be, will take effective steps for implementation of this MOU. Any act on the part of Training Partner or, the Second Party after termination of this Agreement by way of communication, correspondence etc., shall not be construed as an extension of this MOU

*Jerry*  
Page 5 of 8  
Director  
Tula's Institute, Dehradun

- 4.2 Both Parties may terminate this MOU upon 30 calendar days' notice in writing. In the event of Termination, both parties have to discharge their obligations.

## **CLAUSE 5 RELATIONSHIP BETWEEN THE PARTIES**

5.1 It is expressly agreed that **First Party** and **Second Party** are acting under this MOU as independent contractors, and the relationship established under this MOU shall not be construed as a partnership. Neither Party is authorized to use the other Party's name in any way, to make any representations or create any obligation or liability, expressed or implied, on behalf of the other Party, without the prior written consent of the other Party. Neither Party shall have, nor represent itself as having, any authority under the terms of this MOU to make agreements of any kind in the name of or binding upon the other Party, to pledge the other Party's credit, or to extend credit on behalf of the other Party.

Any divergence or difference derived from the interpretation or application of the MoU shall be resolved by arbitration between the parties as per the Arbitration Act, 1996. The place of the arbitration shall be at District Head Quarters of the First Party. This undertaking is to be construed in accordance with Indian Law with exclusive jurisdiction in the Courts of **Dehradun**.

AGREED:

For Tula's Institute Dehradun  
Dehradun



Authorized Signatory

*Amit Agarwal*  
For RRMI TECHNOLOGIES  
PRIVATE LIMITED

Tulas , Institute - Dehradun	Second Party
Mehre Ka Gaon PO SelaquiDhoolkot Dehradun Uttarakhand 248011, Uttrakhand - India	Address
( Contact No )	Concerned person Contact no
E-mails: ( Email ID )	E-mail
www.tulas.edu.in	Website

Witness1:

*Devesh Sharma*  
*D.*

Witness2:

*Amit Kumar*  
*AK*

*Director*  
Tula's Institute, Dehradun

# RRMI Technologies Private Limited

## Certificate of Training

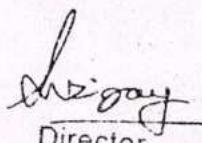
This is to Certify that

Aman Ishwar

has successfully completed internship training on

***“Web Page Development”***

from 4<sup>th</sup> June – 30<sup>th</sup> June 2023

  
Amit Agarwal  
Director  
Tula's Institute, Dehradun

Amit Agarwal  
Director, RRMI

# *RRMI Technologies Private Limited*

## *Certificate of Training*

This is to Certify that

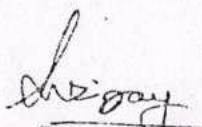
Arpan Bharti

has successfully completed internship training on

***“Web Page Development”***

from 4<sup>th</sup> June – 30<sup>th</sup> June 2023

  
Amit Agarwal  
Director, RRMI

  
Director  
Tula's Institute, Dehradun

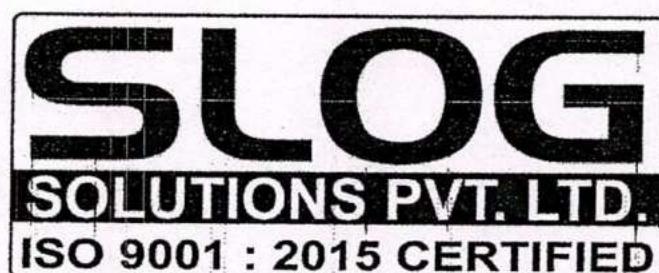
Amit Agarwal  
Director, RRMI

MEMORANDUM  
OF  
UNDERSTANDING  
BETWEEN

Tula's Institute Dehradun, Uttarakhand



AND  
SLOG Solutions Pvt. Ltd.



TULAS INSTITUTE  
DHOOLKOT – DEHRADUN

MEMORANDUM OF UNDERSTANDING

*huy*  
Director  
Tula's Institute, Dehradun

This Memorandum **of Understanding** (hereinafter called as the 'MOU') is  
Entered into on this 8<sup>th</sup> day of August Two Thousand Twenty Two.

**BETWEEN**

**Tulas Institute Mehre Ka Gaon PO SelaquiDhoolkot Dehradun Uttarakhand 248011 - India** (hereinafter referred as 'First Party', the institution which expression, unless excluded by or repugnant to the subject or context shall include its successors - in-office, administrators and assigns).

**AND**

**SLOG Solutions Pvt. Ltd., 2 Janajuri, GMS Road, Dehradun, the Second Party,** and represented herein by its **Mr. Suraj** (hereinafter referred to as "Second Party", company which expression, unless excluded by or repugnant to the subject or context shall include its successors - in-office, administrators and assigns).

(First Party and Second Party are hereinafter jointly referred to as 'Parties' and individually as 'Party')

**WHEREAS:**

- A) First Party is a Higher Educational Institution named:

**Tula'sInstitute, Dehradun**

- B) First Party & Second Party believe that collaboration and co-operation between themselves will promote more effective use of each of their resources, and provide each of them with enhanced opportunities.
- C) The Parties intend to cooperate and focus their efforts on cooperation within area of Skill Based Training, Orientation on Education paradigms and Counselling.

*Suraj*  
Director  
**Tula's Institute, Dehradun**

- D) Both Parties, being legal entities in themselves desire to sign this MOU for advancing their mutual interest.
- E) **SOLG Solutions Pvt. Ltd.**, the Second Party is engaged in Student Training Program, Internship, Faculty Development programs, Corporate Training, Projects, Placements and related fields
- F) **SOLG Solutions Pvt. Ltd.**, the Second party is having its branch office at Dehradun and working in the era of Uttarakhand.

**NOW THEREFORE, IN CONSIDERATION OF THE MUTUAL PROMISES SET FORTH IN THIS MOU, THE PARTIES HERETO AGREE AS FOLLOWS:**

#### **CLAUSE 1 CO-OPERATION**

- 1.1 Both Parties are united by common interests and objectives, and they shall establish channels of communication and co-operation that will promote and advance their respective operations within the Institution and its related wings. The Parties shall keep each other informed of potential Opportunities and shall share all information that may be relevant to secure additional opportunities for one another.
- 1.2 First Party and Second Party co-operation will facilitate effective utilization of the intellectual capabilities of the faculty of Second Party providing significant inputs to the students of First Party and developing suitable teaching / training systems, keeping in mind the needs of the industry.
- 1.3 The general terms of co-operation shall be governed by this MOU. The Parties shall cooperate with each other and shall, as promptly as is reasonably practical, enter into all relevant agreements, deeds and documents (the 'Definitive Documents') as may be required to give effect to the actions contemplated in terms of this MOU. The term of Definitive Documents shall be mutually decided between the Parties. Along with the Definitive Documents, this MOU shall represent the entire understanding as to the subject matter hereof and shall supersede any prior understanding between the Parties on the subject matter hereof.

*Shyam*  
**Director**  
**Tula's Institute, Dehradun**

## **CLAUSE 2 SCOPE OF THE MoU**

- 2.1 The budding graduates from the institutions could play a key role in technological up-gradation, innovation and competitiveness of an industry. Both parties believe that close co-operation between the two would be of major benefit to the student community to enhance their skills and knowledge.
- 2.2 Both Parties to obtain all internal approvals, consents, permissions, and licenses of whatsoever nature required for offering the Programs on the terms specified herein.
- 2.3 **Internships with Companies/Industry:** Second Party shall undertake various Internship programs of students admitted with first party and shall handover the progress back to first party. The structure of the report will be provided by the first party (Tula's Institute). The student's faculty mentor at (Tula's Institute) is to monitor the student's progress in terms of how the Internship Program fulfils his/her training goals. To this end, the faculty mentor undertakes to contact student regularly in order to observe the student's progress and visit him/her personally, if possible and needed.
- 2.4 **Guest Lectures:** Second Party to extend the necessary support to deliver guest lecturers to the students of the First Party on the technology trends and in house requirements.

## **CLAUSE 3 INTELLECTUAL PROPERTY**

- 3.1 Nothing contained in this MOU shall, by express grant, implication, Estoppel or otherwise, create in either Party any right, title, interest, or license in or to the intellectual property (including but not limited to know-how, inventions, patents, copy rights and designs) of the other Party.

*luy*  
Director  
Tula's Institute, Dehradun

## **CLAUSE 4 VALIDITY**

- 4.1 This Agreement will be valid until it is expressly terminated by either Party on mutually agreed terms of **one years**, during which period the Second Party, as the case may be, will take effective steps for implementation of this MOU. Any act on the part of Training Partner or, the Second Party after termination of this Agreement by way of communication, correspondence etc., shall not be construed as an extension of this MOU
- 4.2 Both Parties may terminate this MOU upon 30 calendar days' notice in writing. In the event of Termination, both parties have to discharge their obligations.

## **CLAUSE 5 RELATIONSHIP BETWEEN THE PARTIES**

5.1 It is expressly agreed that **FirstParty** and **Second Party** are acting under this MOU as independent contractors, and the relationship established under this MOU shall not be construed as a partnership. Neither Party is authorized to use the other Party's name in any way, to make any representations or create any obligation or liability, expressed or implied, on behalf of the other Party, without the prior written consent of the other Party. Neither Party shall have, nor represent itself as having, any authority under the terms of this MOU to make agreements of any kind in the name of or binding upon the other Party, to pledge the other Party's credit, or to extend credit on behalf of the other Party.

Any divergence or difference derived from the interpretation or application of the MoU shall be resolved by arbitration between the parties as per the Arbitration Act, 1996. The place of the arbitration shall be at District Head Quarters of the First Party. This undertaking is to be construed in accordance with Indian Law with exclusive jurisdiction in the Courts of **Dehradun**.

Director  
Tula's Institute, Dehradun

AGREED:

For Tula's Institute, Dehradun  
Dehradun

Authorized Signatory



For Slog Solutions Pvt. Ltd.  
Dehradun

Authorized Signatory



Tulas , Institute - Dehradun	Second Party :SLOG Solutions Pvt Ltd
Mehre Ka Gaon PO SelaquiDhoolkot Dehradun Uttarakhand 248011, Uttrakhand - India	Slog 2 Janakpuri,GMS Road Dehradun
Contact No 0135-2699300	Contact no 7456000240
E-mails: placement@tulas.edu.in	E-mail:slog.doon@gmail.com
www.tulas.edu.in	www.slogsolutions.com

*Mohit Kumar*  
Witness1:

*Ankit Nautiyal*  
Witness2:  
*Ankit*

*Shyam*  
Director  
Tula's Institute, Dehradun

# SLOG SOLUTIONS PVT. LTD.

AN ISO AND MSME CERTIFIED COMPANY, APPROVED BY MINISTRY OF CORPORATE AFFAIRS, GOVT. OF INDIA

## CERTIFICATE OF TRAINING

This is to certify that  
Ayush Dubey

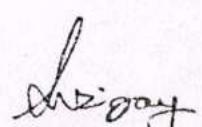
has successfully completed 4 Weeks Training Program on  
**Advance JAVA**

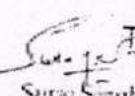
started from 8 July - 5 Aug. '23

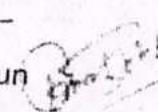
at SLOG Solutions Pvt. Ltd.

**Tula's Institute, Dehradun**

Director

  
Director  
Tula's Institute, Dehradun

  
Suraj Singh  
Technical Manager  
SLOG Solutions Pvt. Ltd.

  
Karan Bishal  
Marketing Manager  
SLOG Solutions Pvt. Ltd.

**SLOG**  
SOLUTIONS PVT. LTD.  
ISO 9001 : 2015 CERTIFIED



Ministry of MSME, Govt. of India

# SLOG SOLUTIONS PVT. LTD.

AN ISO AND MSME CERTIFIED COMPANY APPROVED BY MINISTRY OF CORPORATE AFFAIRS, GOVT. OF INDIA

## CERTIFICATE OF TRAINING

This is to certify that

**Mayank Chaudhary**

has successfully completed 4 Weeks Training Program on  
**Android with Core JAVA**

started from 8 July - 5 Aug. '23

at SLOG Solutions Pvt. Ltd.

Tula's Institute, Dehradun  
Director, Dehradun

*Surya Singh*  
Surya Singh  
Technical Manager  
SLOG Solutions Pvt. Ltd.

*Shreyas*  
Director  
Tula's Institute, Dehradun

*Kiran Bish*  
Kiran Bish  
Marketing Manager  
SLOG Solutions Pvt. Ltd.

**SLOG**  
SOLUTIONS PVT. LTD.  
ISO 9001 : 2015 CERTIFIED

**MSME**  
MINISTRY OF SMALL & MEDIUM ENTERPRISES  
GOVT. OF INDIA  
OUR STRENGTH • YOUR TRUST  
Ministry of MSME, Govt. of India

MEMORANDUM  
OF  
UNDERSTANDING  
BETWEEN

Tula's Institute Dehradun, Uttarakhand



AND

TPC Global



[www.tpcglobal.in](http://www.tpcglobal.in)

**TPC™ Global**  
*Training for Professional Competence*

TULAS INSTITUTE

*lily*  
Director  
Tula's Institute, Dehradun

# DHOOLKOT – DEHRADUN

## MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (hereinafter called as the 'MOU') is  
Entered into on this 6<sup>th</sup> day of January Two Thousand Twenty Three

BETWEEN

**Tulas Institute Mehre Ka Gaon PO SelaquiDhoolkot Dehradun Uttarakhand 248011 - India** (hereinafter referred as 'First Party', the institution which expression, unless excluded by or repugnant to the subject or context shall include its successors – in-office, administrators and assigns).

AND

**TPC Global the Second Party, and represented herein by its (Name and designation of Representative)** (hereinafter referred to as "Second Party", company which expression, unless excluded by or repugnant to the subject or context shall include its successors – in-office, administrators and assigns).

(First Party and Second Party are hereinafter jointly referred to as 'Parties' and individually as 'Party')

*huz*  
Director  
Tula's Institute, Dehradun

**WHEREAS:**

- A) First Party is a Higher Educational Institution named:

**Tula's Institute, Dehradun**

- 
- B) First Party & Second Party believe that collaboration and co-operation between themselves will promote more effective use of each of their resources, and provide each of them with enhanced opportunities.
- C) The Parties intend to cooperate and focus their efforts on cooperation within area of Skill Based Training, Orientation on Education paradigms and Counselling.
- D) Both Parties, being legal entities in themselves desire to sign this MOU for advancing their mutual interest.
- E) **TPC Global**, the Second Party is engaged in **(Career Counselling & Freshers Orientation -and related fields)**
- F) **TPC Global**, the Second party is having its branch office at (Dehradun) and working in the era of Uttarakhand.

**NOW THEREFORE, IN CONSIDERATION OF THE MUTUAL PROMISES SET FORTH IN THIS MOU, THE PARTIES HERETO AGREE AS FOLLOWS:**

**CLAUSE 1 CO-OPERATION**

- 1.1 Both Parties are united by common interests and objectives, and they shall establish channels of communication and co-operation that will promote and advance their respective operations within the Institution and its related wings. The Parties shall keep each other informed of potential Opportunities and shall share all information that may be relevant to secure additional opportunities for one another.

*[Signature]* Director  
Tula's Institute, Dehradun Page 3 of 7

- 1.2 First Party and Second Party co-operation will facilitate effective utilization of the intellectual capabilities of the faculty of Second Party providing significant inputs to the students of First Party and developing suitable teaching / training systems, keeping in mind the needs of the industry.
- 1.3 The general terms of co-operation shall be governed by this MOU. The Parties shall cooperate with each other and shall, as promptly as is reasonably practical, enter into all relevant agreements, deeds and documents (the 'Definitive Documents') as may be required to give effect to the actions contemplated in terms of this MOU. The term of Definitive Documents shall be mutually decided between the Parties. Along with the Definitive Documents, this MOU shall represent the entire understanding as to the subject matter hereof and shall supersede any prior understanding between the Parties on the subject matter hereof.

## **CLAUSE 2 SCOPE OF THE MoU**

- 2.1 The budding graduates from the institutions could play a key role in technological up-gradation, innovation and competitiveness of an industry. Both parties believe that close co-operation between the two would be of major benefit to the student community to enhance their skills and knowledge.



Dr. Jayant Patel  
Director  
Tula's Institute, Dehradun

- 2.2 Both Parties to obtain all internal approvals, consents, permissions, and licenses of whatsoever nature required for offering the Programs on the terms specified herein
- 2.3 **Career Counselling of Students:** Second Party shall be actively involved in assessing individual needs of the students enrolled with first party, understanding their career needs and goals, communicate to them regarding their career options, council them, and shall ensure setting up realistic goals and plans for their attainment.
- 2.4 **Fresher's Orientation:** Second Party will actively engage new students to college environment by simulation methods and giving the opportunity to fresher's and faculty to get connected by initiating various activities.
- 2.5 **Guest Lectures:** Second Party to extend the necessary support to deliver guest lecturers to the students of the First Party on the technology trends and in house requirements

### **CLAUSE 3 INTELLECTUAL PROPERTY**

- 3.1 Nothing contained in this MOU shall, by express grant, implication, Estoppel or otherwise, create in either Party any right, title, interest, or license in or to the intellectual property (including but not limited to know-how, inventions, patents, copy rights and designs) of the other Party.

*lily*  
Director  
Tula's Institute, Dehradun

## **CLAUSE 4 VALIDITY**

- 4.1 This Agreement will be valid until it is expressly terminated by either Party on mutually agreed terms of **One years** during which period , the Second Party, as the case may be, will take effective steps for implementation of this MOU. Any act on the part of Training Partner or, the Second Party after termination of this Agreement by way of communication, correspondence etc., shall not be construed as an extension of this MOU
- 4.2 Both Parties may terminate this MOU upon 30 calendar days' notice in writing. In the event of Termination, both parties have to discharge their obligations.

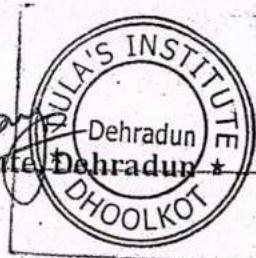
## **CLAUSE 5 RELATIONSHIP BETWEEN THE PARTIES**

- 5.1 It is expressly agreed that First Party and Second Party are acting under this MOU as independent contractors, and the relationship established under this MOU shall not be construed as a partnership. Neither Party is authorized to use the other Party's name in any way, to make any representations or create any obligation or liability, expressed or implied, on behalf of the other Party, without the prior written consent of the other Party. Neither Party shall have, nor represent itself as having, any authority under the terms of this MOU to make agreements of any kind in the name of or binding upon the other Party, to pledge the other Party's credit, or to extend credit on behalf of the other Party

Any divergence or difference derived from the interpretation or application of the MoU shall be resolved by arbitration between the parties as per the Arbitration Act, 1996. The place of the arbitration shall be at District Head Quarters of the First Party. This undertaking is to be construed in accordance with Indian Law with exclusive jurisdiction in the Courts of Dehradun.

AGREED:

For Tula's Institute Dehradun  
Dehradun



Authorized Signatory

Tulas , Institute - Dehradun	Second Party
Mehre Ka Gaon PO SelaquiDhoolkot Dehradun Uttarakhand 248011, Uttrakhand - India	Ballupur Chowk Dehradun
Mr.Vaibhav Kumar,TPO 9458945884	Mr.Ajay Sharma,CEO & ED 99999 80120
E-mails: placement@tulas.edu.in	E-mail:ajaysharmatpc@gmail.com
www.tulas.edu.in	www(tpcglobal.in)

Birendra Kumar  
Witness1:

Birendra Kumar

P. k  
(Parvat Kumar)  
Witness2:

Parvat

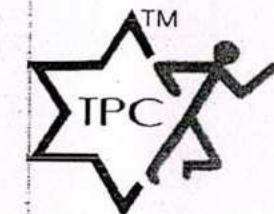
Director  
Tula's Institute, Dehradun



TPC<sup>TM</sup> Global

*Training for Professional Competence*

TECHNOLOGY | EMPLOYABILITY SKILLS | PLACEMENT



## *Certificate of Internship*

ARYAN RAJ

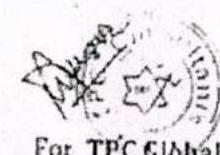
Has successfully completed 4 weeks internship (2 June – 27 June 2023) on  
Machine Learning in June 2023

Date: 4 July 2023

A handwritten signature in black ink, appearing to read "Ajay K Sharma".

Director  
Tula's Institute, Dehradun

CEO  
Ajay K Sharma

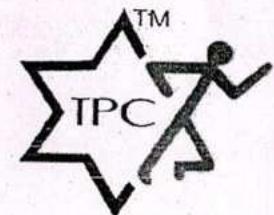


Tula's Institute, Dehradun  
Director



TPC™ Global

*Training for Professional Competence*  
TECHNOLOGY | EMPLOYABILITY SKILLS | PLACEMENT

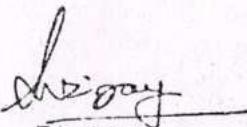


## *Certificate of Internship*

Avnish Singh

Has successfully completed 4 weeks internship (9 June – 5 July 2023) on Web Application Development in June-July 2023

Date: 22 July 2023

  
Director  
Tula's Institute, Dehradun

  
CEO For TPC Global  
Ajay K Sharma

**Sample of CO & PO  
Attainment**

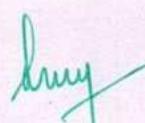
## CO-PO Attainment Process

Program outcomes are defined by regulatory bodies such as the University Grants Commission (UGC), the All India Council for Technical Education (AICTE), or the National Board of Accreditation (NBA). These outcomes serve as foundational benchmarks for assessing the quality and effectiveness of educational programs at the institutional level and ensuring alignment with national standards and accreditation requirements.

In addition to the regulatory-defined program outcomes, individual academic departments establish their program specific outcomes (PSO) and program educational objectives (PEOs) to reflect the vision, mission, and educational goals of each department, as well as the specialized knowledge, skills, and competencies expected of graduates in their chosen field.

### Program Outcomes (POs) for Engineering

- PO-01:** **Engineering Knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- PO-02:** **Problem Analysis:** Identify, formulate, research literature, and analyze complex Engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- PO-03:** **Design/development of Solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- PO-04:** **Conduct Investigations of Complex Problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- PO-05:** **Modern Tool usage:** Create, select, and apply appropriate techniques, resources, and Modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- PO-06:** **The Engineer and Society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- PO-07:** **Environment and Sustainability:** Understand the impact of the professional Engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- PO-08:** **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- PO-09:** **Individual and Team Work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- PO-10:** **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- PO-11:** **Project Management and Finance:** Demonstrate knowledge and understanding of the Engineering and management principles and apply these



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to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

- PO-12:** **Life-long Learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

### Program Specific Outcomes (PSOs)

Each department has Two to Four well defined program specific outcomes.

### Program Specific Outcomes (CSE):

- PSO-01:** Provide programming paradigms through teaching learning facilities.  
**PSO-02:** Provide ability to design and develop computing solutions.

### Outcome Based Education (OBE)

The institutes implemented a comprehensive Outcome Based Education (OBE) system to ensure students achieve Program Outcomes (POs) and Program Specific Outcomes (PSOs). By mapping Course Outcomes (COs) with these POs and PSOs, the institute is ensuring alignment between what students are learning and the overall objectives of the program.

Assessment methods such as assignments/tutorials, class test, sessional examinations, and end-semester examinations are designed to measure the attainment of Course Outcomes. The institute is focusing on measuring outcomes using Revised Bloom's Taxonomy, which provides a framework for classifying the different levels of cognitive skills that students are expected to demonstrate.

This approach not only ensures that students are acquiring the necessary knowledge and skills but also provides a structured way to assess their progress and achievement. By emphasizing competencies and preparing students to meet the demands of their chosen field or profession effectively.

### Course Outcomes

Course Outcomes (COs) are provided by the university for all courses. If the university has not defined course outcomes or has not clearly articulated them using the Cognitive Process Action Verbs/Keywords of Revised Bloom's Taxonomy, then respective departments to take step in and by selecting appropriate action verbs that align with the desired cognitive processes, departments can ensure that course outcomes are specific, measurable, achievable, relevant, and time bound.

COURSE NAME:		Design and Analysis of Algorithms	COURSE CODE	BCST-503
CO #	BTL	CO STATEMENT		
BCST-503.1	C4	Calculate and compare efficiency of standard algorithms for problems in fundamental areas of computer science and engineering using asymptotic complexity.		
BCST-503.2	C3	Apply prior knowledge standard algorithm design techniques and mathematics to solve fundamental problems in computer science and engineering.		

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BCST-503.3	C3	Apply prior knowledge of standard algorithm design techniques and mathematics to design efficient algorithms for moderately difficult new computational problems.
BCST-503.4	C4	Investigate as an individual and in a team 10 algorithm design techniques available in the literature and submit a report containing their relative merits and demerits based on performance measures.
BCST-503.5	C5	Evaluate mathematically the quality and correctness of the new proposed novel solutions of a given real world engineering problem.

### CO-PO/PSO Mapping

The Course Outcomes are mapped to the Program Outcomes and Program Specific Outcomes with three levels of attainment. The strength of the correlation between CO and PO describes the level at which a particular PO is addressed through a CO.

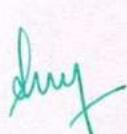
- 3: Indicates Substantial/High mapping (high correlation towards attainment): This means Primary Focus/effort
- 2: Indicates Moderate mapping (moderate correlation towards attainment). This means Secondary Focus/effort.
- 1: Indicates Low mapping (low correlation towards attainment). This means Tertiary Focus Effort.
- “-“: No correlation

#### RUBRICS FOR STRENGTH OF CO-PO/PSO MAPPING

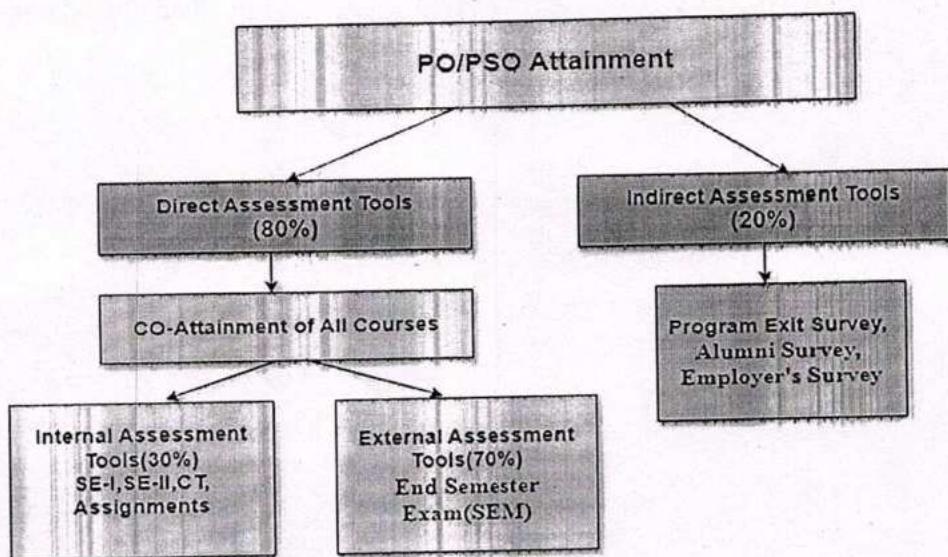
MAPPING STRENGTH	JUSTIFICATION
3: HIGH	$\geq 40\%$ of classroom sessions /tutorials /lab hours address a particular PO, then it is considered that: PO is addressed at level 3
2: MODERATE	$\geq 20\%$ and $< 40\%$ of classroom sessions/tutorials/lab hours address a particular PO, then it is considered that: PO is addressed at level 2
1: LOW	$\geq 5\%$ and $< 20\%$ of classroom sessions/tutorials/lab hours address a particular PO, then it is considered that: PO is addressed at level 1
“-“:No Correlation	$< 5\%$ of classroom sessions/tutorials/lab hours address a particular PO, then it is considered that: PO is not addressed.

#### Assessment methods/tools:

The Institute uses both direct and indirect assessment methods to ensure the attainment of POs and PSOs.



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#### **Direct Assessment Method:**

- Sessional Examination
- Assignments/Tutorial
- Class Test
- Laboratory Performance
- Project/Internship
- End Semester Examinations

#### **Indirect Assessment Method:**

- Program Exit Survey
- Alumni Exit Survey
- Employer's Survey

#### **Weightage for direct and indirect Assessments:**

Based on the provided weightages, we can calculate the contribution of each assessment method as follows:

The weightage of the direct assessment method is 80%, while the weightage of the indirect assessment method is 20%. Furthermore, within the direct assessment, 30% is contributed by internal assessments tool (IAT), and 70% is contributed by external assessments.

#### **Direct Assessment Method:**

- Weightage: 80%

#### **Direct Assessment is Further breakdown:**

- Internal Assessment: 30% of Direct Assessment
- External Assessment: 70% of Direct Assessment

#### **Indirect Assessment Method:**

- Weightage: 20%

#### **Steps for Course Outcome Attainment**

##### **Step 1: Well-Defined Course Outcomes.**

The first step is that the course outcome of all the courses in the curriculum must be clearly defined using the Cognitive Process Action Verbs / Keywords of Revised Bloom's Taxonomy.

##### **Step 2: Determine Assessment Tools that are to be used to measure course outcomes.**

Direct assessment consists of two sessional examinations, 5 assignments, 5 class tests, and one semester-end examination conducted by the university.

##### **Step 3: Set Attainment Levels for course outcomes.**

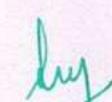
The target attainment levels for course outcomes in all courses are determined based on the average marks obtained by students over three years of internal and external assessment examinations. For new courses, attainment levels of course outcomes are established using the average results of the same academic year.

#### **Step 4: Collect Data from Assessment Tools and calculate CO Attainment.**

Course Outcome (CO) attainment is determined by analyzing data extracted from Excel spreadsheets containing assessment marks for each Course Outcome, submitted by respective faculty members for their respective courses. The CO-wise attainment level is calculated by determining the average percentage of CO attainment, which is then compared against the predefined set target for the attainment level of CO.

Total No. of Students Obtained Y	57	65	59	42	50		114
Total No. of Students Obtained N	59	51	57	74	66		0
Total No. of Students AB							2
%age Attainment(Y*100/N)	49.1	56.0	50.9	36.2	43.1		100.0
CO Wise Attainment Level	1	2	2	1	1		3
THRESHOLD	13.68	13.68	10.08	10.08	10.08		44
THRESHOLD PERCENTAGE %	72	72	72	72	72		44

ATTAINMENT OF IAT AND SEE						
CO #	CIE	SEE	CIE*.3	SEE*.7	CIE+ SEE	Total CO Attainment
CO-01	1	3	0.3	2.1	2.40	2.40
CO-02	2	3	0.6	2.1	2.70	2.70
CO-03	2	3	0.6	2.1	2.70	2.70
CO-04	1	3	0.3	2.1	2.40	2.40

  
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CO-05	1	3	0.3	2.1	2.40	2.40
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**COURSE OUTCOMES ATTAINMENT 2019-23 BATCH**

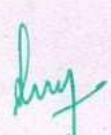
S. No	Course Code	CO1	CO2	CO3	CO4	CO5	Average
1	BAST 104	1.6	1.0	1.0	1.6	1.0	1.2
2	BAST 102	2.0	2.0	2.0	2.3	1.7	2.0
3	BMET-102	2.0	1.7	1.7	1.7	1.7	1.8
4	BCET 101	1.7	1.7	1.7	1.7	1.7	1.7
5	BASP 104	1.7	1.7	1.7	1.7	1.7	1.7
6	BMEP 102	3.0	3.0	2.4	2.4	2.4	2.6
7	BCEP 101	1.7	1.7	2.0	2.0	2.0	1.9
8	BMEP 103	3.0	2.7	3.0	2.7	3.0	2.9
9	BASP-106	1.6	1.6	1.6	1.3	1.6	1.5
10	BEST 101	1.0	1.0	1.0	1.0	1.0	1.0

  
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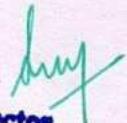
11	BEST 101(Field Work)	1.0	1.0	1.0	1.0	1.0	1.0
12	BAST 101	3.0	3.0	3.0	3.0	3.0	3.0
13	BAST- 105	3.0	3.0	3.0	3.0	2.7	2.9
14	BAST 103	3.0	3.0	3.0	3.0	3.0	3.0
15	BEET- 101	3.0	2.4	2.7	2.4	3.0	2.7
16	BCST 101	3.0	3.0	3.0	3.0	3.0	3.0
17	BASP- 101	1.6	1.0	1.0	1.6	1.0	1.2
18	BASP- 103	2.7	3.0	2.7	3.0	2.7	2.8
19	BEEP- 101	3.0	3.0	3.0	3.0	3.0	3.0
20	BCSP- 101	3.0	3.0	3.0	3.0	3.0	3.0
21	BMEP 101	3.0	3.0	3.0	3.0	3.0	3.0
22	BASP- 105	3.0	3.0	3.0	3.0	3.0	3.0
23	BCET- 301	3.0	3.0	3.0	3.0	3.0	3.0

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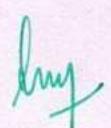
24	BCST-302	3.0	3.0	3.0	3.0	3.0	3.0
25	BCST-303	3.0	3.0	3.0	3.0	3.0	3.0
26	BCST-305	3.0	2.7	3.0	3.0	3.0	2.9
27	BECT-303	3.0	3.0	3.0	3.0	3.0	3.0
28	BAST-107	3.0	3.0	3.0	3.0	1.0	2.6
29	BCSP-303	3.0	3.0	3.0	3.0	3.0	3.0
30	BCSP-305	3.0	2.4	3.0	3.0	3.0	2.9
31	BCSP-306	3.0	3.0	3.0	2.7	2.4	2.8
32	BECP-303	3.0	3.0	3.0	3.0	3.0	3.0
33	BAST-401	3.0	3.0	3.0	3.0	3.0	3.0
34	BECT-402	3.0	3.0	3.0	3.0	2.4	2.9
35	BECT-403	3.0	2.4	3.0	3.0	2.4	2.8
36	BEET-404	3.0	3.0	3.0	3.0	2.7	2.9

  
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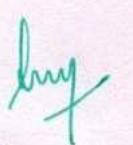
37	BEET-405	3.0	3.0	3.0	3.0	3.0	3.0
38	BECP-402	2.3	2.3	2.0	2.0	2.0	2.1
39	BECP-403	3.0	3.0	2.4	2.4	3.0	2.8
40	BEEP-404	2.7	2.4	3.0	3.0	3.0	2.8
41	BHUT-401	3.0	3.0	3.0	3.0	3.0	3.0
42	BCST 501	3.0	3.0	3.0	3.0	2.4	2.9
43	BCST - 502	3.0	3.0	3.0	3.0	3.0	3.0
44	BCST - 503	2.4	2.7	2.7	2.4	2.4	2.5
45	BCST504 (C)	2.7	2.4	3.0	3.0	2.4	2.7
46	BOCS - 505 (C)	3.0	3.0	3.0	3.0	3.0	3.0
47	BCSP-501	1.3	1.3	1.6	1.6	1.6	1.5
48	BCSP-502	3.0	3.0	3.0	3.0	3.0	3.0
49	BCSP-503	3.0	3.0	3.0	3.0	3.0	3.0

  
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50	BCST-506	1.0	2.0	1.0	3.0	2.0	1.8
51	BSCT-508	3.0	3.0	3.0	3.0	3.0	3.0
52	BCST-601	1.3	1.3	1.6	1.3	1.6	1.4
53	BCST - 602	1.7	1.7	1.7	1.7	1.7	1.7
54	BCST - 603	2.4	2.4	2.4	2.4	2.4	2.4
55	BCST 604(B)	2.4	2.4	2.4	2.4	2.7	2.5
56	BOCS - 605(B)	2.4	2.4	2.4	2.4	2.4	2.4
57	BCSP-601	1.0	1.6	1.0	1.0	1.6	1.2
58	BCSP-602	3.0	3.0	3.0	3.0	3.0	3.0
59	BCSP-603	2.7	2.4	2.4	2.4	2.7	2.5
60	BCSP - 606	3.0	3.0	3.0	3.0	3.0	3.0
61	BCSP - 607	3.0	3.0	3.0	3.0	3.0	3.0
62	BCST 701	3.0	3.0	3.0	3.0	3.0	3.0

  
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63	BCST - 702	3.0	3.0	3.0	3.0	3.0	3.0
64	BCST 703 (D)	2.7	2.4	2.4	2.4	2.4	2.5
65	BOCS - 704(A)	2.4	2.4	2.4	2.4	2.4	2.4
66	BCSP 701	1.6	1.6	1.6	1.6	1.6	1.6
67	BCSP- 702	3.0	2.4	2.4	2.7	2.7	2.6
68	BCSP - 705	3.0	3.0	3.0	3.0	3.0	3.0
69	BCSP - 706	3.0	3.0	3.0	3.0	3.0	3.0
70	BCSP - 707	3.0	3.0	3.0	3.0	2.7	2.9
71	BCST- 801	1.0	1.0	1.0	1.0	1.0	1.0
72	BCST - 802	1.0	1.0	1.0	1.0	1.0	1.0
73	BCST 803 (D)	2.4	2.4	2.4	2.4	2.4	2.4
74	BOCS - 804 (B)	2.4	2.4	2.4	2.7	2.4	2.5
75	BCSP- 801	1.0	1.6	1.3	1.0	1.3	1.2

  
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76	BCSP-802	2.4	3.0	2.7	2.4	3.0	2.7
77	BCSP - 805	3.0	2.4	2.4	3.0	2.4	2.6

#### Calculation of PO/PSO-Attainment

Step 1: Prepare the CO-PO/PSO matrix.

Step 2: PO / PSO attainment is calculated by considering all the assessment tools used for CO attainment and using the formula:

$$\text{PO/PSO Attainment} = \frac{\text{CO-PO/PSO Mapping Level}}{3} \times \text{CO-Attainment Value}$$

Step 3: For Indirect PO/PSO attainment (IDA), surveys from graduating students, alumni, and employers are taken.

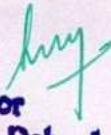
The weightage of the direct assessment method (DA) is 80%, while the weightage of the indirect assessment method (IDA) is 20%.

#### PROGRAM LEVEL COURSE OUTCOMES ATTAINMENT 2019-23 BATCH

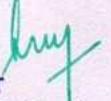
S. No.	Subject Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
1	BAST 104	1.20	0.70	0.20										1.20	0.40
2	BAST 102	1.50	0.90												
3	BMET 102	1.80	1.30						1.00						
4	BCET 101	1.70	0.80	0.70					0.60						
5	BASP 104	0.80								0.80					
6	BMEP 102	1.90	1.40	0.40	0.40	0.80				0.50		0.30			
7	BCEP 101	0.90	0.70	0.20	0.30					0.10		0.20			
8	BMEP 103	2.10	1.90	0.60	1.10										
9	BASP 106		1.40			0.60				0.20	2.40		1.20		

10	BEST 101	0.40				0.90	0.80	0.20	0.1 0	0.30		0.60		
11	BAST 101	2.20	1.00			0.80	0.60					1.80		
12	BAST- 105	2.90	1.80		0.40									
13	BAST 103		2.40	1.20						2.80		0.40		
14	BEET- 101	2.00	1.40		0.30	0.80		0.40	0.60 0	0.6		0.60		
15	BCST 101	3.00	1.40	0.60									3.0 0	1.00
16	BASP- 101		0.60					0.60	0.60 0	0.8				
17	BASP- 103		1.30	2.10						1.90				
18	BEEP- 101	0.80			0.20	0.80			1.20 0	1.4		0.20		
19	BCSP- 101	2.60	1.00	0.40									2.3 0	1.00
20	BMEP 101	2.40	1.40	0.60	0.20	0.20								0.80
21	BASP- 105					3.00	2.00			2.0 0				
22	01(Field					0.10	0.80	0.10 0			0.2		0.30	
23	BCET- 301	2.60	1.20				2.40	0.40				2.00 0		2.0
24	BCST- 302	3.00	1.60											
25	BCST- 303	3.00	2.20	0.20									3.0 0	1.00
26	BCST- 305	2.70	2.00	1.20	0.40								2.9 0	2.90
27	BECT- 303	2.20	1.80	0.80										
28	BAST- 107	0.80		0.20	0.20			0.40 0	0.2	2.00	0.50			
29	BCSP- 303	2.40	1.60	0.80					0.4 0	0.4	0.60		2.4 0	2.40
30	BCSP- 305	2.90	1.50	0.60					0.4 0				2.3 0	2.30
31	BCSP- 306	2.70	1.50	0.30	0.90									2.80
32	BECP- 303	3.00	1.60	0.60					0.4 0					
33	BAST- 401	3.00	1.60		0.40							1.8 0	0.40	

34	BECT-402	2.90	1.60	0.60		0.50			0.60				2.90	1.00
35	BECT-403	2.80	1.80	0.90					0.40	0.40	0.40			1.80
36	BEET-404	2.90	2.00	1.00									0.40	
37	BEET-405	3.00	1.20	0.40	0.20									2.00
38	BECP-402	1.70	0.90			0.30			0.10	0	0.40		1.70	2.10
39	BECP-403	2.80	1.80	0.90										1.10
40	BEEP-404	2.20	1.50	0.70						0.40				1.10
41	BHUT-401	0.40					0.80	0.80	3.00	0.40		2.00		
42	BCST 501	2.90	1.50	0.20	0.80	0.20								1.00
43	BCST - 502	3.00	1.60	0.20	0.40	0.40							1.40	
44	BCST - 503	2.50	1.70	1.20										1.70
45	BCST5 04(C)	2.70	1.60	0.90	0.50	0.60			0.50				2.70	2.70
46	BOCS -505 (C)	3.00	1.60	0.60	0.20									1.00
47	BCSP- 501	1.50	0.50	0.10	0.10				0.20					0.50
48	BCSP- 502	3.00	0.80	1.00		1.00								1.80
49	BCSP- 503	2.40	0.40							0.60			2.20	
50	BCST- 506	1.00		0.10		0.10			0.10	0.10	1.40	0.50	1.60	1.60
51	BSCT- 508	1.20		0.20		0.20			0.40	0.20	2.40	0.80	1.00	1.00
52	BCST- 601	1.40	0.70	0.40									1.10	0.60
53	BCST - 602	1.40	0.20	0.10	0.20					0.30			1.00	0.30
54	BCST - 603	2.20	1.00	0.30	0.50	1.10							2.40	0.80
55	BCST - 604(B)	2.50	1.60	0.50		0.20								0.60
56	BOCS -605(B)	2.40	1.10			0.30				0.30			2.10	1.60

  
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57	BCSP-601	1.20	0.40	0.40		0.70							0.70	0.20	
58	BCSP-602	2.40	2.00	0.80					0.40	1.00			1.20	1.20	
59	BCSP-603	2.50	0.70	0.70	0.20	1.80			0.40		0.30	0.80	2.50		
60	BCSP - 606	3.00	2.00	0.40	0.20	0.80							3.00	3.00	
61	BCSP - 607	1.00	1.60	1.60		0.80			1.20	0.40	0.40		3.00	3.00	
62	BCST 701	3.00	0.20	1.20	0.60	0.20			0.20	0.20	0.40		2.80	3.00	
63	BCST - 702	2.80	1.80	1.20										2.00	
64	BCST 703 (D)	2.50	1.80		0.20				0.20				2.50	2.50	
65	BOCS -								0.50				0.30	0.30	
66	BCSP 701	1.40	0.20	0.40		0.40							1.00	0.60	
67	BCSP-702	2.50	1.60	1.10										1.60	
68	BCSP - 705	2.40	1.00	0.40		0.40			0.60				1.80	0.40	
69	BCSP - 706	1.20		0.20		0.20			0.40	0.20	2.40	0.80	1.00	1.00	
70	BCSP - 707	1.20	0.80			1.10			0.80	0.60	0.20		2.30	2.90	
71	BCST- 801	0.80	0.50	0.30		0.20							0.10		
72	BCST - 802	0.80	0.50	0.20	0.10	0.10								0.30	
73	BCST 803 (D)	2.40	1.60	0.50	0.20	1.10								0.80	
74	BOCS -804 (B)	2.50	1.20	0.70	0.30	0.30								1.60	
75	BCSP- 801	1.00	0.70	0.40		0.20							1.20	1.20	
76	BCSP- 802	1.40	1.40	1.00		0.50				0.50				0.70	
77	BCSP - 805	1.30	1.80	1.10		1.00			0.50				2.60	2.60	
Direct PO Attainment		2.07	1.28	0.62	0.35	0.55	1.11	1	0.65	0.5	0.92	0.5	0.94	1.9	1.5

  
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Indirect PO- Attainment	3	3	3	3	3	2	2	2	3	3	2	2	3	3
Total PO Attainment (DA(80%)+ID A(20%))	2.25	1.62	1.1	0.88	1.04	1.29	1.2	0.92	1	1.34	0.8	1.15	2.1	1.76
Target	2.15	1.62	1.1	0.85	1.23	1.21	1.43	0.91	1	1.21	1.22	0.55	2	2
Gap	0.1	0	0	0.03	-0.19	0.08	-0.23	0.01	0	0.13	-1.42	0.6	0.1	-0.24
Gap Analysis	A	A	A	A	NT	A	NT	A	A	A	NT	A	A	NT

### Gap Analysis and Action Taken Report

The final attainment of Program Outcomes (PO) is determined by a combination of Direct and Indirect assessment methods, with 80% of the achievement derived from the Direct method and 20% from the Indirect method. These values are then compared against the predefined attainment targets set for each PO and Program Specific Outcome (PSO).

- If the predetermined targets are achieved (A), the assessment process continues unchanged for subsequent batches.
- If the targets are not achieved (NT), a series of continuous improvement actions are initiated for each PO and PSO.
- Evaluation results are deliberated in IQAC meetings, where members discuss potential enhancements based on attainment levels.
- Continuous improvement includes Action to be taken for improving the teaching-learning process/facilities based on the attainment gap and organizing the programs, workshops, training, and industrial visits to fill the attainment gap.



Director  
Tuls's Institute, Dehradun

# **Workshop on Research Paper Writing**



GRADUATE SCHOOL OF BUSINESS  
IS ORGANIZING A GUEST LECTURE ON  
**RESEARCH PAPER  
WRITING**



**DR. TANU KATHURIA**

Research Scientist  
& Economist

**14<sup>TH</sup> JAN, 2023**  
**2:00 PM ONWARDS**

Google Meet  
TO JOIN THE MEETING  
PLS SCAN THE QR CODE



EVENT COORDINATORS: DR. PREETI RANA & DR. KAMLESH JOSHI

**Event Overview:**

Title: Guest Lecture on Research Paper Writing

Date: January 14, 2023

Time: 2:00 PM Onwards

Format: Online via Google Meet

Speaker: Dr. Tanu Kathuria, Research Scientist and Economist

Event Coordinators: Dr. Preeti Rana & Dr. Kamlesh Joshi

**Objectives:**

The primary objective of this lecture was to guide students and faculty on effective research paper writing techniques, aiming to enhance their skills in producing publishable academic work.

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**Audience:**

The lecture was intended for students and faculty of the Graduate School of Business and other interested parties from Tula's Institute who were keen on improving their research writing skills.

**Key Content Delivered:**

**Basics of Research Writing:** Dr. Kathuria started with the fundamentals of academic research, including identifying research gaps and formulating research questions.

**Structure of a Research Paper:** Detailed discussion on the typical structure of a research paper, including sections like abstract, introduction, literature review, methodology, results, and discussion.

**Writing Style and Techniques:** Emphasis on academic writing style, referencing techniques, and avoiding plagiarism.

**Publishing in Academic Journals:** Tips on selecting the right journals for submission, understanding the peer review process, and responding to feedback.

**Ethical Considerations:** Overview of ethical considerations in research, including consent and confidentiality.

**Activities and Engagement:**

**Interactive Discussions:** Participants engaged in discussions about challenges they face while writing research papers.

**Q&A Session:** A vibrant question and answer session where Dr. Kathuria addressed specific queries from attendees.

**Practical Exercises:** Brief exercises on drafting sections of a research paper, which helped in understanding the practical application of the concepts discussed.

**Feedback:**

The feedback from participants was extremely positive, highlighting the clarity of explanation and the relevance of the content to their academic needs. Many expressed a desire for more such sessions focusing on advanced topics in research writing.

**Conclusion:**

The guest lecture on research paper writing was highly beneficial for attendees, equipping them with essential skills and knowledge to enhance their academic writing abilities. The session was well-received, and the engagement level was high.

  
Director  
**Tula's Institute, Dehradun**

# **Policy Document for Society Membership Fee**

# **Research Policy**

## RESEARCH POLICY

Revised on: 25/02/2022

With effect from: 01/03/2022

\*This policy will supersede the entire clause present on previous policy.

Tula's Institute is committed to cutting edge research for providing viable solutions to the emerging societal problems in the current scenario to contribute towards nation-building. To fulfil its commitment, the Institute has framed research policy to foster academic excellence and pursue research activities. Each faculty member and student of the Institute will be guided by the research policy. Research policy contains guidelines to motivate, nurture, and facilitate the faculty members and students to pursue research activities. Policy framework for achieving academic excellence with detailed guidelines presented in this research policy.

Framework for achieving academic excellence through research:

### 1. MOTIVATING FACULTY MEMBERS TO PURSUE PhD.

Academic excellence can be achieved by integrating research outcomes in the teaching-learning process. To achieve this, faculty members will be encouraged to research on emerging technologies/areas. One of the challenges faced by academic institutions nowadays is to get doctorate faculty members. To build in-house resources, faculty members will be encouraged to pursue/enroll in the PhD program. Henceforth, the following guidelines will be followed to facilitate and incentivize faculty members for the pursuance of PhD.

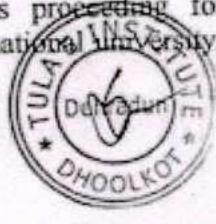
#### 1.1 Academic Leave

- 1.1.1. A total of 14 days Academic leaves in a year will be provided to the faculty members.
- 1.1.2. If Ph.D. work falls during summer break, then faculty must consume their summer vacations first and the rest will be treated as academic leave.
- 1.1.3. For availing academic leave, faculty members will have to submit a request with all documentary proof (Ph.D. admission letter, fee receipts etc.), to HR through HoD and Dean (Academics). The final approval of sanctioning academic leave lies with the Director.

#### 1.2 Financial support

- 1.2.1 Financial support of ₹10000/- will be provided to the faculty members for submission of the Ph.D. thesis.
- 1.2.2 For availing financial support, the faculty member must have rendered confirmation of service in the Institute.
- 1.2.3 The faculty member is expected to serve for at least one year in the Institution after the submission of the Ph.D. thesis. If in case he/she fails to do so, the financial support given will be adjusted from his/her security/salary amount.
- 1.2.4 Plagiarism report (as per guidelines of the University) of the Ph.D. work should be attached with the request for financial assistance.
- 1.2.5 Process for financial support should be routed through HoD & Dean (Academics) to HR. HR will process the case for final approval by the director. All the reimbursement approval would be communicated by HR via e-mail to the individual and respective HoD.
- 1.2.6 Faculty members pursuing the Ph.D. program will have to submit the progress report to the Registrar/ Director.

Faculty members proceeding for their higher education in any institution of national importance/international university, they will be awarded study leave to complete the minimum



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residential requirement (as suggested/recommended by his/her supervisor). In case of financial support given for the above during their residential requirement, the faculty member requires to sign a mutual agreement as per mutual acceptance.

- 1.2.8 Institute will not provide any financial assistance for the candidates who will be availing any kind of Government/Non-government fellowship scheme.

## 2. PUBLISHING RESEARCH

To improve the reputation and visibility of the Institute to outside world, emphasis will be laid on improving the number of research articles published in journals/conference proceedings. Following incentive schemes will be followed to appreciate faculty members contributing to publishing research articles.

### 2.1 Incentive Scheme for Journal publications

#### 2.1.1 Engineering and Management:

- Scopus publication: ₹1000/- (rupees one thousand) per publication.
- SCI publication/Nature: ₹5000/- (rupees five thousand) as a first/corresponding author.
- SCI publication/Nature: ₹2000/- (rupees two thousand) (as a Second/Third author)
- ABDC Publication: ₹5000/- (rupees five thousand) as the first author.
- ABDC Publication: ₹2000/- (rupees two thousand) as second /third author.

#### 2.1.1 Agriculture:

- Publications in journals having NAAS rating below 5: ₹1000/- (rupees one thousand) per publication
- Publications in journals having NAAS rating above 5: ₹2000/- (rupees two thousand) per publication

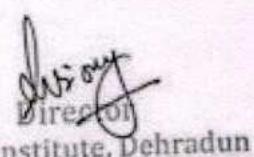
### 2.2 Terms and conditions

- Research articles published only with Tula's affiliation will be considered.
- Maximum four publications of a faculty member in a year will be considered.
- Faculty member claiming full incentive must be the first author.
- If there is more than one author from Tula's Institute, the first author will get 50% amount and rest 50% will be shared equally among co-authors.
- Faculty member outside Tula's Institute will not be eligible to get the incentive.
- Online date of publication will be considered for publication
- Proof of published paper must be submitted to claim incentives.
- All incentives suggested for faculty members will also apply to students

*buy*  
Director

Tula's Institute, Dehradun

INCENTIVES/SUPPORT FOR CONFERENCES/SEMINARS/WORKSHOPS/SOCIETY  
MEMBERSHIP



### 3.1 Faculty Members

- 3.1.1 Faculty members will be encouraged to attend conferences/seminars/workshops organized within India on emerging/thrust areas in engineering, management, media, journalism and agriculture.
- 3.1.2 Financial assistance in the form of registration fee up to ₹2000/- for conferences/workshops/seminars organized in India (once in an academic session) shall be given. Faculty member can request for financial assistance only once in a year.
- 3.1.3 Financial Assistance for purchasing Membership of renowned Society shall be provided by the institution, subjected to the prior approval from the concerned authority.
- 3.1.4 Faculty members may avail academic leave throughout the year preferably during the lean period.
- 3.1.5 Only one faculty member can claim benefits in case of joint authorship for international conferences, faculty members should apply to AICTE or other government organizations for funding.
- 3.1.6 Faculty members will have to submit the application duly signed by concerned HoD & Dean (Academics) to HR. They also have to enclose copy of the receipt of the registration fee, the first page of the paper (if required) and certificate along with the application.
- 3.1.7 Applicable for conferences (proceeding published by IEEE/Springer/ASME/Elsevier).
- 3.1.8 The grant will be approved with the permission of the Director.

### 4.0 WRITING BOOKS

**Following incentive scheme will be applicable for writing books/ Chapter in books**

- 4.1 Book with the International publisher: ₹10000/- (Rupees Ten Thousand)
- 4.2 Book with the national publisher: ₹5000/- (Rupees Ten Thousand)
- 4.3 An edited volume of books with chapters (with ISSN/ISBN): ₹500/- Applicable only if Chapters/Books will be with the affiliation of Tula's Institute.

### 5.0 ATTENDING SHORT TERM COURSES/FACULTY DEVELOPMENT PROGRAMS

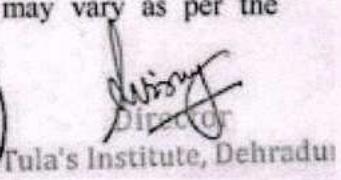
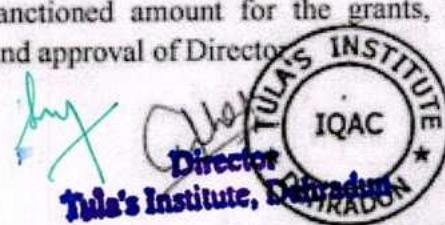
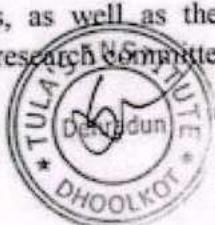
Academic leave of 14 days shall be provided to the faculty members for attending Conference/Short term courses/refresher Courses/Workshops/Research Activity/Ph.D. during the lean period.

### 6.0 INTERDISCIPLINARY INNOVATIVE STUDENT PROJECTS/FIELD STUDIES

Interdisciplinary research is important in the current scenario to provide a solution to real-life problems. To move in this direction Institute will encourage and facilitate students to undertake interdisciplinary projects/field studies. The research committee will submit its recommendations to the Director for approval.

The grant for selected student projects will be up to ₹25000/- (Rupees twenty thousand) per project depending upon the recommendations and feasibility of the project.

The number of projects, as well as the sanctioned amount for the grants, may vary as per the recommendations of the research committee and approval of Director.



## 7.0 FILING PATENTS

- 7.1** The patent application fee will be given to students and faculty members for filling patents with the affiliation of Tula's Institute.
- 7.2** Faculty members & students will be required to give a presentation on their idea with a complete working model to research committee. Only ideas/working models recommended by the research committee and approved by the Director will be eligible for reimbursement of application fee.

## 8.0 FUNDED RESEARCH PROJECTS (By Govt. And private funding agencies)

Institute will give due importance to funded research projects to be submitted by faculty members. Funded research projects will help augment research infrastructure in the Institute. Incentive scheme for appreciating efforts of faculty members will be about 1% of total research grant.

- 8.1** Principal Investigator (PI) will be eligible for 50% incentive and rest 50% incentive will be equally divided among the Co-PI/s.
- 8.2** The 50% of the payment shall be made after the 50% completion of the project and the balance/remaining 50% shall be made after the completion of the project.
- 8.3** If the principal investigator wants to relieve before completing the tenure of the research project from the organization, he/she have to give NOC for the project and will have to hand over all the project related documents to Co-PI/research committee.

## 9.0 CONSULTANCY & REMUNERATION /HONORARIUM DISTRIBUTION

Consultancy means an activity that involves an employee or a group of employees giving specialized or expert service to an external party/agency that requires such service, with or without payment. Irrespective of the rest of this document, each consultancy provider (an individual employee) will ensure that the work will not conflict with his/her regular assigned duties as an employee of the institute.

### TYPES OF CONSULTANCY

**9.1 Independent Consultancy:** The consultancy only involves the use of an employee's or a group of employees' time. It does not involve significant use of institute's physical resources like equipment, computers etc.

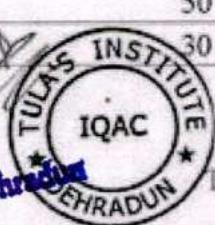
**9.2 Institutional Consultancy:** The consultancy involves both - the use of an employee's or a group of employees' time as well as the use of the institute's physical resources like equipment, computers etc.

**9.3 Routine Consultancy:** The consultancy primarily involves the use of the institute's physical resources like equipment, computers etc. The use of an employee's or a group of employees' time is minimal.

Type of Consultancy	Institute share (%)	Consultancy Provider Share (%)
Independent Consultancy	30	70
Institutional Consultancy	50	50
Routine Consultancy	70	30



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Tula's Institute, Dehradun



*Director*  
Tula's Institute, Dehradun

#### 10.0 COLLABORATION WITH OUTSIDE AGENCIES

The Institute will do collaborations with academic institutes, research organizations for knowledge transfer, improving quality of research work, developing faculty members, developing in-house research infrastructure and imparting quality education to students.

#### 11.0 HONORARIUM TO EXTERNAL EXPERT/KEYNOTE SPEAKER/GUEST LECTURE:

The Institute will pay the honorarium to the External Expert/Keynote speaker/Guest lecture according following Matrix.

Sr.	Expert Designation	Payment	Traveling allowance
1	Professor/Scientist 'F' and above	₹4000/-	
2	Associate Professor/ Scientist 'D' and Above	₹3000/-	
3	Assistant Professor/ Scientist 'B' and Above	₹2500/-	
4	Industry Expert	₹3000/-	
5	Government officials Pay level (10 to 12)	₹3000/-	
6	Government officials Pay level (13, 13A and 14)	₹3500/-	₹10/- per KM
7	Government officials Pay level 15 and above	₹4000/-	

\*No. TA will be paid to local expert.

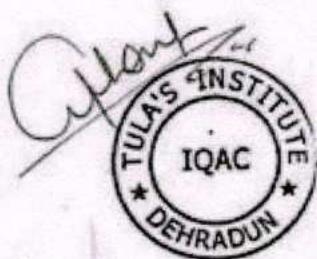
\*Honorarium with respect to funded project/scheme is as per the funding agency rule/norms however, for our own activities it is mentioned in above table.

\*Honorarium of expert for online session will be 70% of above-mentioned amount.

#### 12.0 ETHICS IN RESEARCH

All faculty members/students will have to follow ethics in research for publishing research articles/project reports (UG/PG)/publishing study material etc. as per guidelines issued by AICTE/UGC/any other authority. Plagiarism of any research project should as per the norms of funding agency.

Note: For availing in house financial grant for research activities, mentioned as attending conferences, pursuing PhD work, student projects and filling patents, faculty members and students will have to submit an undertaking that no financial support from any outside agency is received for such activities.



APPROVED

26.02.22  
Director  
Tula's Institute, Dehradun

buy Director  
Tula's Institute, Dehradun

# **Waste Management Policy**

## **WASTE MANAGEMENT**

## Solid Waste Management



Colour coded bin



Colour coded bin

*luy*  
Director  
Tula's Institute, Dehradun



Colour coded bin



Colour coded bin

*lily*  
Director  
Tula's Institute, Dehradun

## Liquid Waste Management



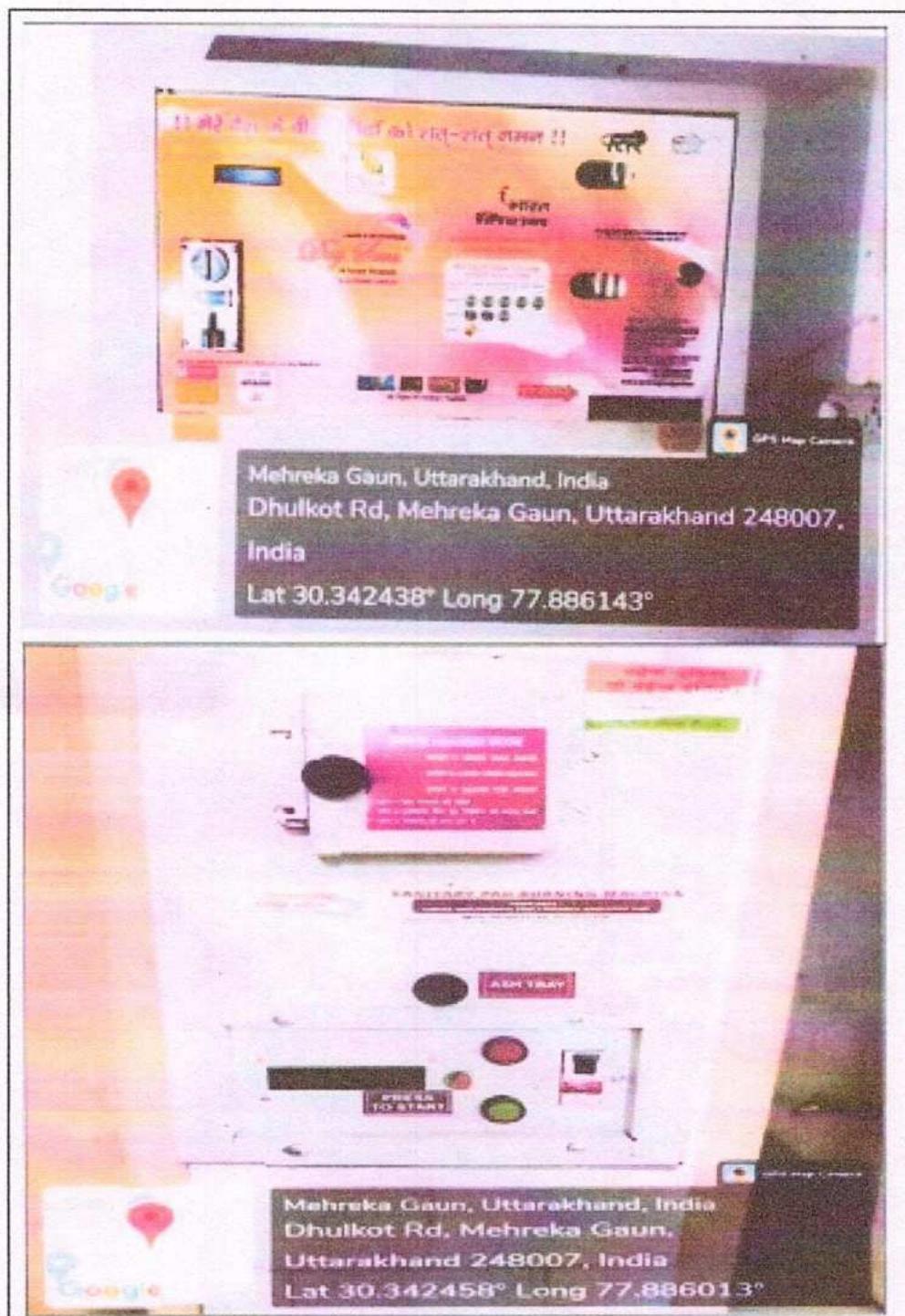
Liquid Waste Management



Liquid Waste Management

*hug*  
Director  
Tula's Institute, Dehradun

## Sanitary Pad Vending Machine



Sanitary Pad Vending Machine at Girl's Hostel

*hug*  
Director  
Tula's Institute, Dehradun



Sanitary Pad Vending Machine at Girl's Common Room

  
Director  
Tula's Institute, Dehradun

## E-Waste Collection Bin



E-waste collection bin



E-waste collection bin

A handwritten signature in blue ink, appearing to read "Dnyaneshwar".

**Director**  
**Tula's Institute, Dehradun**

# **Sample of Add- on Certificates**



**TULA'S**  
DEHRADUN INSTITUTE

**Short Term Course on  
Front End Development**  
Jointly Organized by

**Tula's Institute, Dehradun**  
&  
**Brillica Services**



In  
**Department of Computer Science & Engineering**

**Date-5<sup>th</sup> June 2023- 10<sup>th</sup> June 2023**



[www.tulas.edu.in](http://www.tulas.edu.in)

*Director  
Tula's Institute, Dehradun*

### **About Tula's Institute**

Tula's Institute, founded by Rishabh Educational Trust in 2006, is acknowledged as the NAAC A+ Accredited institute as having the highest rating amongst colleges & universities in Uttarakhand. Tula's Institute is one of the 'Top Engineering Colleges in Uttarakhand' for its excellence in academic programs from undergraduate to the postgraduate level.

Tula's Institute is Ranked as No. 1 College in the Dehradun for placements in core companies, faculty, and infrastructure and Industry exposure.

Tula's Institute Dehradun is dedicated to serving our communities by recognizing the diverse needs of the individuals. It encourages personal and professional development through respect, appreciation and a commitment to general education, as a foundation for life-long learning.

#### **Vision**

To emerge as an academic centre producing world class professionals promoting innovation and research.

#### **Mission**

To promote intellectual and skilled human capital generation employment and entrepreneurship.

To be educational centre of excellence of multi ethnicity and diversity.

To establish as technology driven teaching learning institution.

To provide world class platform for research and innovation.

To inculcate social, environmental, heritage values.

### **About Department of Computer science & Engineering**

Bachelor of Technology in Computer Science & Engineering (B.Tech. CSE) is one of the most sought-after engineering degrees. The program teaches students about computer applications and systems in order to prepare them for a career in the IT industry. In this program, students learn about programming languages, digital and analogue electronic equipment, networking, Design and development of computer software and hardware and various forms of communication engineering. Students who have analytical and logical reasoning skills, as well as an interest in software development, testing, and programming, should consider a career in this field

#### **Vision**

To becomethecentreofexcellenceinteaching, research andinnovative practicesforcomputing.

#### **Mission**

To provide a learning ambience to enhance programming skills for problem solving.

To integrate the software industry and academia in order to utilise technology for research, innovation and entrepreneurship

To develop professionals with a solid foundation who can think outside the box to adapt green computing solution.

To provide a comprehensive computing environment that meets the highest global standards for higher education and lifelong learning.

To create ethical, skilled engineers through theoretical understanding and practical implementations.

#### About BrillicaServices

Brillica Services Private Limited is a trusted training provider and leading provider at high quality, innovative and industry relevant IT skills, empowering and budding IT aspirants with across-the-board knowledge with a vision to create a fleet of the smarter workforce for global organizations. With a team of dedicated and knowledgeable learning professionals having profound subject-matter expertise, we provide blended IT training solutions to map all your IT learning needs.

#### Objective

The main objective of the workshop was to impart knowledge among the students. On the first day of the workshop the students of Tula's Institute showed active participation and the same continued till the last day. Mr. Raghvendra helped students gain technical knowledge of Front-End development. The students got to know about how to use Html, CSS javascript and its various libraries which

come handy for today's competitive environment.

#### Content

- HTML
- CSS
- JAVA-SCRIPT
- 

#### Resource Person

Mr. Raghavendra  
Web-Development Trainer  
Brillica services

#### Short term Course Schedule

##### Course Duration 5 -10 June 2023

Day 1 09:30 to 12:00 & 1:00 to 4:30 PM  
Day 2 09:30 to 12:00 & 1:00 to 4:30 PM  
Day 3 09:30 to 12:00 & 1:00 to 4:30 PM  
Day 4 09:30 to 12:00 & 1:00 to 4:30 PM  
Day 5 09:30 to 12:00 & 1:00 to 4:30 PM  
Day 6 09:30 to 12:00&1:00 to 4:30 PM

#### Event Co-ordinator

Ms. Akanksha Srivastav  
Assistant Professor  
Department of CSE  
Mob:-8178586605  
Email:-akankshasrivastav@tulas.edu.in

Mr Girish Singh Bisht  
Assistant Professor  
Department of CSE  
Mob-7983352646  
Email- girish@tulas.edu.in

Director  
Tula's Institute, Dehradun

#### REGISTRATION FORM

Department of Computer Science &  
Engineering  
Front End Development  
5<sup>th</sup> to 10<sup>th</sup> June 2022

1. Name: .....  
(Block letters)
  2. Course Name:
  3. Department Name:
  4. College/Institute Name:
  5. College ID/ College Registration No.:  
.....
  6. Address for communication:  
.....  
.....  
.....  
.....  
.....
- PIN: .....  
Mobile: .....  
Email: .....

#### Signature of the Participant

#### Endorsed by Head of Institute/ HoD



CENTRE OF EXCELLENCE

# CERTIFICATE

Inspire  
to  
Aspire

This is to certify that

Mr. / Ms. **AASHISH PAL**

of

**TULAS INSTITUTE, DEHRADUN**

has successfully completed a 1 Week Add on Certificate on

**NODE JS**

from 22nd June'23 to 28th June'23

On behalf of RCPI INDIA

A handwritten signature in black ink, appearing to read "N. Pal", is placed over a blue horizontal line.

Director

*[Handwritten signature]*  
Certification ID : RCPL-2023/4904

Date: 28th June'23

ORACLE  
Workforce Development Partner

Microsoft  
CERTIFIED  
Program

Hewlett Packard  
Enterprise

NASSCOM





CENTRE OF EXCELLENCE

# CERTIFICATE

Inspire  
to  
Aspire

This is to certify that

Mr. / Ms. **ABED AKTAR BARLASKAR**

of

**TULAS INSTITUTE, DEHRADUN**

has successfully completed a 1 Week Add on Certificate on

**CLOUD COMPUTING USING AWS**

from 15th June'23 to 21st June'23

On behalf of RCPL INDIA

Director

Certification ID : RCPL-2023/5066

Date: 21st June'23

Director  
Tula's Institute, Dehradun

**Microsoft**  
CERTIFIED  
Program

Hewlett Packard  
Enterprise

**NASSCOM**



**ORACLE** Workforce Development Partner



CENTRE OF EXCELLENCE

# CERTIFICATE

Inspire  
to  
Aspire

This is to certify that

Mr. / Ms. **AARUSH**

of

**TULAS INSTITUTE, DEHRADUN**

has successfully completed a 1 Week Add on Certificate on

**UiPath & RPA**

from 19th June'23 to 24th June'23

On behalf of RCPL INDIA

Director

Certification ID : RCPL-2023/5200

Date: 24th June'23

Director  
Tulas Institute, Dehradun



Hewlett Packard  
Enterprise

NASSCOM®



ORACLE Workforce Development Partner

**Screenshot of  
ALMA Connect Portal**

# Alma-Connect Portal

The screenshot shows the Alma-Connect Portal homepage for Tula's Institute. At the top, there is a navigation bar with links for Home, About, Contact, and Log In. Below the navigation bar, a banner says "Discover 454 Tulaites". There are three categories: Software Engineering Professionals, Teaching and Training Professionals, and Analysts and Data Science Professionals. A section for "Introducing Lists - a smarter way to get discovered" is shown. On the left, there is a sidebar with links for Home, Events, Mentorship Program, Groups, and Groups. It lists groups like PA IQAC, Vinay Verma, Shashank Mehta, pravang gupta, Avish Sekhsaria, Sonal Trupti, Chandan Singh Rawat, Abhishek Misra, Tarun Nandan, Tarun Nandan, Avish Sekhsaria, and Dr. Anand K. Tripathi. On the right, there is a "Get referred to jobs" section with various job icons and a "View Openings" button.

URL of Alma-Connect Portal <https://tulasinstitute.almaconnect.com>

This screenshot is similar to the one above, showing the Alma-Connect Portal homepage for Tula's Institute. It features the same banner, categories, and sidebar. However, it includes a large handwritten signature "Chry" over the "Discover 454 Tulaites" banner. Below the banner, there is a large blue box containing the text "Director Tula's Institute, Dehradun". The footer of the page has the text "Alma-Connect Portal" and "FINDBACK".

Director  
Tula's Institute, Dehradun

# **Sample of Mentor Mentee**

Name of the Mentee/College ID: Abhishek Kumar Singh / 202104112

Name of the Mentor: Mrs. Ritu Pal

**MENTORING DIARY NOTE**

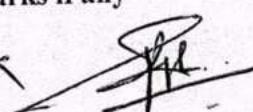
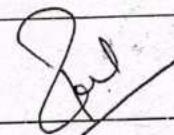
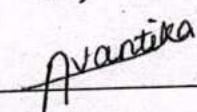
Date of meeting	25 - April - 2023
Issues discussed:	<ol style="list-style-type: none"> <li>1. Regarding Add on course</li> <li>2. Regarding Semester Exam</li> <li>3. Library class</li> </ol>
Reflections/comments:	<p>Mentee: i) When will add on course      ii) When will semester exam start      iii) We want library class.</p>
	<p>Mentor: Semester Exam will be start at the end of this month.</p>
HOD remarks if any	OK <i>[Signature]</i>
Tentative schedule of the Next meeting:	15 - May - 2023
Signatures	<p>Signature of Mentor <i>[Signature]</i></p> <p>Signature of Mentee <i>[Signature]</i></p> <p><i>Abu</i></p>

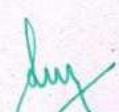
Director  
Tula's Institute, Dehradun

Name of the Mentee/College ID: Avantika Rawat /202104DBD

Name of the Mentor : Ritu Pal

### MENTORING DIARY NOTE

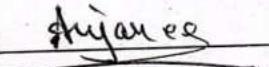
Date of meeting	<u>3 March 23</u>
Issues discussed:	1) Regarding Subject oriented 2) Regarding Add on course
Reflections/comments:	Mentee: 1) No problem in any subject. 2) When will the course start <sup>Add</sup>
	Mentor: Information will be notify through CAMU ERP & Mail Id.
HOD remarks if any	<u>OK</u> 
Tentative schedule of the Next meeting:	<u>4 April 23</u>
Signatures	Signature of Mentor  Signature of Mentee 

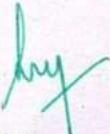
  
 Director  
 Tula's Institute, Dehradun

Name of the Mentee/College ID: Shajneek Kumari / 2021041A6

Name of the Mentor : Ritu pal

**MENTORING DIARY NOTE**

Date of meeting	14/09/22
Issues discussed:	<ol style="list-style-type: none"> <li>1. Regarding fee</li> <li>2. Regarding Academic</li> <li>3. Regarding hostel</li> </ol>
Reflections/comments:	<p>Mentee:</p> <ul style="list-style-type: none"> <li>1 fee date</li> <li>2 classes conducted regularly</li> <li>3 food is very messy.</li> </ul>
	<p>Mentor:</p> <ul style="list-style-type: none"> <li>Free date will be announced soon</li> </ul>
	HOD remarks if any
Tentative schedule of the Next meeting:	19/10/22
Signatures	<p>Signature of Mentor </p> <p>Signature of Mentee </p>

  
**Director**  
**Tula's Institute, Dehradun**