



DON BOSCO INSTITUTE OF TECHNOLOGY

Kurla, Mumbai.

FE NEWSLETTER

A Newsletter for the Basic Sciences and Humanities Department

AY 2022-2023 | VOL 3



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FROM THE HOD'S DESK

As we embark on this journey of reflection and celebration, I am thrilled to share my perspective on the purpose of this newsletter. This newsletter serves as a testament to the remarkable journey our first-year students have undertaken, guided by the values and principles of Don Bosco Institute of Technology. Throughout the past year, our dedicated faculty and staff have diligently nurtured and mentored our students, shaping them not only into promising engineers but also into well-rounded individuals with a strong moral compass. The foundation of Engineering Mathematics, Engineering Physics, Engineering Chemistry, and Communication Skills has been laid through engaging lectures, practical sessions, and tutorials. In addition to academic excellence, our department has placed a significant emphasis on holistic development. Activities such as skill development programs, mentoring, one-day field trips, and sustainability projects have enriched the overall learning experience of our students. We've also fostered a sense of community and camaraderie through cultural and sports events. Our well-furnished laboratories serve as hubs for experiential learning, extending beyond the confines of the syllabus and honing our students' skill sets, preparing them to become the engineers of tomorrow. This newsletter is a testament to the collective efforts of all those who have contributed to its creation. It serves as a showcase of the achievements and milestones of our first-year students and the Department of Basic Sciences & Humanities. It is a testament to our unwavering commitment to providing the best facilities and opportunities for our budding technocrats. I invite you all to explore the incredible journey of our students and the department's relentless pursuit of excellence in education. Together, we continue to shape the future of engineering education at Don Bosco Institute of Technology.



Warm regards,
Dr. Vinod Gokarna
Head of Department

MEET OUR FACULTY



Dr. Vinod Shridhar Gokarna

-Head of Department

Ph.D (Physics), M.Sc. (Physics)

Experience: Teaching: 8 years & Industry/Research: 15 years

Publication: 6

Area of Interest: Structure property relationships of Polymer composites and nanocomposites, Crystallisation kinetics of Polymer / Polymer composites, evaluation of drug delivery using Hot Melt Extrusion, Assessment of Colour and Colour backgrounds.



Dr. Revathy Sundararajan

-Associate Professor

Ph.D (Mathematics)

Experience: Teaching: 31 years & Industry/Research: 24 years

Publication: 8

Area of Interest: Probability, Statistics, Stochastic Processes



Ms. Kartiki Bhave

-Assistant Professor

M.Sc. (Organic Chemistry), B.Ed. PGDME

Experience: Teaching: 16 years & Industry/Research: 1 year

Publication: 2

Area of Interest: Material Science



Mr. Sameer Hadkar

-Assistant Professor

M.Sc. (Physics)

Experience: Teaching: 18 years & Industry/Research: 7 years

Area of Interest: Nanotechnology, Liquid Crystal



Ms. Pallavi Rahul Mahadik

-Assistant Professor

M.Sc. (Pure Mathematics), NET

Experience: Teaching: 10 years & Industry/Research: 1 year

Area of Interest: Analysis, Calculus



Mr. Satyanarayana Nagula

-Assistant Professor

M.Sc. (Pure Mathematics), NET JRF with AIR 31

Experience: Teaching: 8 years

Area of Interest: Linear Algebra, Analysis



Ms. Manisha Dinesh Seksaria

**-Assistant Professor
M.Sc in Mathematics, SET**

Experience: Teaching: 5 years

Area of Interest: Algebra, Topology



Mr. Sachin Sugave

**-Assistant Professor
M.A. (English Literature), SET, B.Ed.**

Experience: Teaching: 15 years

Area of Interest: Literature in Translation



Mr. Dipak Jadhav

**-Assistant Professor
M.A. (English Literature), M. Phil., SET**

Experience: Teaching: 5 years

Publication: 4

Area of Interest: Gender Studies



Mr. Sachin Sheravi

-Assistant Professor

B.E in Mechanical,M.Tech in Machine Design

Experience: Teaching: 10 years & Industry : 1 year

Area of Interest: Machine Design



Ms. Sonali Jabare

-Assistant Professor

M. Sc.(Mathematics), SET

Experience: Teaching: 11 years

Area of Interest: Applied Mathematics



Mr. Somnath Pawar

-Assistant Professor

M. Sc.(Mathematics), SET

Experience: Teaching: 14+ years & Publications: 1

Area of Interest: Linear Algebra



Ms. Anice Mathew

**-Assistant Professor
MSc Analytical chemistry, MS Chemistry**

Experience: Teaching: 16 years

Area of Interest: Analytical chemistry

FACULTY ACHIEVEMENTS

FACULTY NAME	ACHIEVEMENTS
Dr. Vinod Gokarna	<p>1.) Under the faculty exchange program, Dr. Vinod conducted the session for Physics, Basics of Physics, research opportunities in Physics, need of basic Physics for 36 students who attended the session during 11.30am to 1.00 pm at Gokhale Education Society's Arts Commerce and science College, Jawhar</p> <p>2.) Speaker for hands on training program on Multi-disciplinary Sophisticated Instruments held under the scheme of synergistic training program utilizing the scientific and technological infrastructure (STUTI) a Department of Science & technology, India, held on 27th March to 2nd April 2023, at Institute of Chemical Technology, Mumbai</p>
Dr. Revathy Sundararajan	<p>1.) Presented an Institutional Report on PBL approach to Problem Solving and Mini Projects during the IUCEE - Vishwaniketan Mini Symposium on Problem and Project based Learning, Dec 2 and 3 2022.</p> <p>2.) Under the faculty exchange program, Dr. Revathy delivered guest lectures on the topic- "Integral transforms" for T Y B Sc Maths students in two sessions on 2nd March from 11.00am to 1.00pm and 1.30pm To 3.00 pm. On 3rd March, she delivered a third session from 10.00 am to 1.00 pm. These sessions stood extremely useful to the students for University exam.</p>
Sachin Sugave	<p>1) Under the faculty exchange program, Prof. Sachin delivered a guest lecture on key concepts of communication skills, grammar and interpersonal skills from 10.30 am to 12.30 pm for FYBA students on 3rd March 2023 at Ghokle Education Society's Jawahar college of Arts , commerce and science</p> <p>2) Published a research paper on "Understanding the predicaments of women with disabilities: A Study of Preeti Monga's the Other Senses and Naseema Hazruk's the Incredible Story"</p>

FACULTY ACHIEVEMENTS

FACULTY NAME	ACHIEVEMENTS
Sameer Hadkar	<p>(1) Prof. Sameer presented research paper in the '<i>Global Conference on Recent Advances in Sustainable Materials (GC-RASM 2022)</i>' organized by A. J. Institute of Engineering and Technology, Karnataka, jointly organized by Civil and Mechanical departments of Engineering dated 28.07.2022</p> <p>(2) He attended a three days offline Faculty Development Program on "Roadmap on Quantum Materials and Technologies" organized by Department of Basic Sciences and Humanities, Mukesh Patel School of Technology, Management and Engineering, SVKM's NMIMS deemed to be University. dated 02.08.2022</p> <p>(3) Filed an Indian Patent in the Patent Office Official Journal, Issue number 18/2023 - Entry No 19 on the 4th page - pdf 1 - Page 34098 dated 05.05.2023</p>
Dipak Jadhav	<p>1) Under the faculty exchange program, Prof. Dipak delivered a guest lecture on key concepts of communication for FYBA students on 3rd March 2023 at Ghokle Education Society's Jawahar college of Arts , commerce and science</p> <p>2) Published a research paper entitled "Portrayal of Women in the Brides Are Not for Burning" in Aayushi International Interdisciplinary Research Journal (AIIRJ) VOL- IX ISSUE-V May 2022 ISSN 2349-638x</p>

FACULTY ACHIEVEMENTS

Faculty Exchange Programme

Don Bosco Institute of Engineering and Technology and Gokhale Education Society's Arts, Commerce, and Science College, Jawhar, came together to organize a Faculty Exchange Programme at their college , under their active MOU. 5 faculty members from Don Bosco College delivered guest lectures on diverse subjects, benefiting over 160 students. Coordinated by Shailesh Bagdane of Gokhale Education Society's Arts, Commerce, and Science College and Royal D'Souza of Don Bosco Institute of Engineering, this initiative aimed to enhance student performance in university examinations and foster personal and professional growth.

Faculty	Topics	Date
Dr. Vinod Gokarna	Basics of Physics, research opportunities in Physics, need of basic Physics	3rd March, 2023
Dr. Revathy S	Integral Transforms	2nd & 3rd March, 2023
Mr. Sachin Sugave	Communication skills, grammar and interpersonal skills	2nd March, 2023
Mr. Dipak Jadhav	Communication skills	2nd March, 2023
Mr. Royal D	Personality Development & Leadership, Entrepreneurship- Mindset and Roadmap	2nd & 3rd March, 2023

Faculty Exchange Programme



FE ORIENTATION

The FE orientation was organized by the Basic Sciences and Humanities department to welcome the freshly joined first years into Don Bosco Institute of Technology. It was hosted by the members of the Literary Society of DBIT. The students and parents were briefed about the institution, all four departments, examination procedures and training and placements offered by DBIT. The Session was conducted over the course of 5 hours from 9 am to 2 pm on 18th November 2022. The event began on a positive note, with the Campus Minister of DBCL- Fr. Nelson Carvalho saying a special prayer. Dr. Vinod Gokarna, the distinguished Head of Basic Sciences & Humanities (FE) Department, to set the tone for our proceedings by welcoming the students and familiarized them with the life at DBIT, and wished them a great year ahead. This was followed by an insightful address from Fr. Anthony Pinto, Rector Director of Don Bosco Centre of Learning, who emphasized the institute's core values and the dual purpose of nurturing both professional excellence and personal growth in students. Dr. Prasanna Nambiar, the Principal of DBIT, then took the stage, radiating enthusiasm for the new academic year, highlighting the pivotal significance of the upcoming four years and urged the students to seize every opportunity.

The students and parents present for the online orientation were also addressed by the Training and Placement Officer (TPO) - Mr. Bharatkumar Bhandary. In his 60 minutes long address, Mr. Bhandary explained the importance of developing employability skills alongside scoring well in the curriculum. He provided students with a few tips and tricks on how they should build their portfolio over the 4 years to come so that the institute can help students with placements at the reputed engineering companies that visit DBIT for the campus placement process annually. Since information about the online examination pattern is a pressing concern for parents, Prof. Sameer Hadkar, the Controller of Examinations (COE) delivered a 30-minute presentation explaining how the examination and marking systems work. All doubts pertaining to examination were solved immediately by Prof. Hadkar.

Dr. Pradeepkumar Suryawanshi- HOD Mechanical Engineering, Prof Namita Agrawal – HOD EXTC Engineering, Dr. Phiroj Shaikh- HOD Computer Engineering Prof. Prasad Padalkar- HOD IT Engineering and Dr. Ashwini Kotrashetti- Dean of Student Progress delivered extensive presentations for the students explaining how the departments function, the various facilities, and amenities offered at each of the departments, and introducing the various students chapters and clubs and briefing about their works and contribution to student development.

All in all, the most important aspects of the curriculum and the teaching-learning process were explained extensively for the students and their parents at the event of the 2021-2022 Orientation Programme.

FE ORIENTATION



THREE-TRACK PROGRAM

The BSH (FE) department through its objective had proposed Wellness VAC with the intention of the overall development of the students. Through the recurring lectures, they aimed to compliment the academic syllabus with extremely practical knowledge that can equip students with skillsets widely sought by the Industry. To enhance the aspirational and wellness quotient of every student through implementation of Institutes' 3 track program where the student will be exposed to diversified technical & cultural session, sporting events & human values. The three-track programme has been successfully implemented in the First Year Engineering level since academic year 2020-2021. Under this three track program the following activities were conducted by **Literary club** and **Math Club**.

EVENT NAME	EVENT DESCRIPTION	DATE
Just A Minute J.A.M	An icebreaker session for FE students in which they'll have to voice their opinions for one minute	12th & 14th December,2022
Effective Speaking	A beginner's session on how to be a good communicator and speak confidently in a crowd	20th January,2023
Calculator Workshop	A workshop to teach how to effectively use calculators for their coursework and future engineering projects.	16th & 17th December 2022
Problem Solving Session - I	Concept discussion, Fun activities & quiz on these topics-Number (Famous Constants), Logic, Aptitude questions	25th November 2022
Problem Solving Session - II	Concept discussion, Fun activities & quiz on these topics- Statistics, Logic and geometry	21st April 2023



THREE-TRACK PROGRAM

EVENT NAME	EVENT DESCRIPTION	DATE
Importance of starting early	Talk on introducing startups for inspiring students to place a strong emphasis on youth entrepreneurship and new employment generating prospects for youths	1st December,2022
Objective Setting	An insightful session on objective setting for our first-year students, guiding them towards setting clear and achievable goals	17th March,2023 for COMPS 23rd March,2023 for IT 31st March,2023 for EXTC 4th April,2023 for MECH
Time Management	Dr. Revathy S. conducted a 2-hour long valuable workshop on time management, empowering FE students with effective strategies to optimize their study schedules and enhance productivity.	27th March,2023 & 10th April,2023
Don Bosco Way	Fr. McEnore Lopes led an engaging session, blending critical thinking and fun games, to illustrate the significance of embracing education the Don Bosco way	12th May 2023
NSS	Mr. Royal D, our NSS Coordinator, addressed students, highlighting the impactful initiatives of NSS and inspiring them to actively participate in these noble endeavors	28th April 2023



PARENT - TEACHER MEETINGS

SEM - I

Class	Date, Time, Venue	No. of Parents	Points Discussed
DIV A	Date : 6th January 2023 Time : 2:00 pm to 5:00 pm Venue : EXTC CR - 1	32	Objective: Notify parents about their ward regarding the IA result and attendance. Suggestions/Feedback by Parents: <ol style="list-style-type: none">1. More meetings with faculty2. Requested for an offline meeting
DIV B	Date : 6th January 2023 Time : 2:00 pm to 5:00 pm Venue : COMPS CR - 1	20	Objective: Notify parents about their ward regarding the IA result and attendance. Suggestions/Feedback by Parents: <ol style="list-style-type: none">1. Inquired about practicals2. Discussion about certain subjects
DIV C	Date : 6th January 2023 Time : 2:00 pm to 5:00 pm Venue : IT CR - 1	29	Objective: Notify parents about their ward regarding the IA result and attendance. Suggestions/Feedback by Parents: <ol style="list-style-type: none">1. Pattern of M.U. papers2. Discussion of student performance
DIV D	Date : 6th January 2023 Time : 2:00 pm to 5:00 pm Venue : MECH CR - 1	21	Objective: Notify parents about their ward regarding the IA result and attendance.

SEM - II

Class	Date, Time, Venue	No. of Parents	Points Discussed
COMPS	29th April 2023 3-5 PM COMPS CR-01	16	<p>Objective: Notify parents about their ward regarding the IA result and attendance.</p> <p>Suggestions/Feedback by Parents: Regular feedbacks on the ward</p>
IT	29th April 2023 3-5 PM IT CR-01	12	<p>Objective: Notify parents about their ward regarding the IA result and attendance.</p> <p>Suggestions/Feedback by Parents: Inquired about the viva</p>
EXTC	29th April 2023 3-5 PM EXTA CR-01	23	<p>Objective: Notify parents about their ward regarding the IA result and attendance.</p> <p>Suggestions/Feedback by Parents: Discussion on exam formats</p>
MECH	29th April 2023 3-5 PM MECH CR-01	22	<p>Objective: Notify parents about their ward regarding the IA result and attendance.</p> <p>Suggestions/Feedback by Parents: Inquired about term work</p>

MENTORING

A Message from Our Faculty Incharge



The holistic development of students is the focus of the Don Bosco way of education. No wonder, mentoring is an integral part of our education system and the faculty mentors and peer mentors accompany the mentees during their journey of engineering education.

Mentoring process helps the mentees to feel 'belonged' and instills the necessary confidence. It identifies support systems to give right directions towards personal and professional fulfillment.

Fr. Nelson Carvalho- Campus Minister of DBCL and a group of counsellors also assisted us in the mentoring process, ensuring the mental well being of all mentees.

- Dr. Revathy Sundararajan

For the academic year 2022-23, the semester began for the FE students (I semester) on Monday, November 7, 2022 and the final list of students was available on Monday, November 21, 2022.

The mentoring incharge of the department (Dr. Revathy S) addressed all the FE students (divisionwise) on Tuesday, November 22, 2022 for about 15 minutes each. The students were briefed about the mentoring sessions that will happen weekly. The faculty mentors were allotted Dr. Revathy S in consultation with the HOD, Dr. Vinod G.

The allotment was as follows:

Branch	Faculty Mentors
COMP	Anice M, Sameer H and Revathy S
EXTC	Sachin Sugave, Satyanarayana N and Pallavi M/ Kartiki B
IT	Dipak J, Manisha S and Sonali J
MECH	Hemant H, Sachin Sheravi and Vinod G

The formal mentoring process began at 4 pm Tuesday, November 29, 2022 - a common time slot was fixed for the first (group) meeting with the 12 venues (for the 12 different mentee groups with the 12 faculty mentors) specified. Mentors and mentees interacted with some ice-breaking activities.

From the following week, the faculty mentors were able to meet with the mentees individually - at the allotted 4 pm to 5 pm slot on Tuesdays.

Peer mentoring began from II semester as the SE and TE students were having their exams when the FE students joined the institute.

The following were the peer mentors (all from SE).

Branch	Peer Mentor
COMP	Aaradhy Deotale, Shubham Keluskar, Shrikant Acharya, Niraj Pingale, Bhaskar Singh Bhakuni, Siddhi Gadge, Kaustubh Desale, Manish Patil
EXTC	Dibyarupa P, Premkumar S, Diya Rai, Rutvik P, Aditya J, Palak T, Mayuri K
IT	Siddhesh Patil, Afzal Siddiqui, Prakhar Sharma, Sumit Sawant, Dhruv Naik, Nikita Mayura
MECH	Alden F, Ankur K, Sarang K, Christopher V

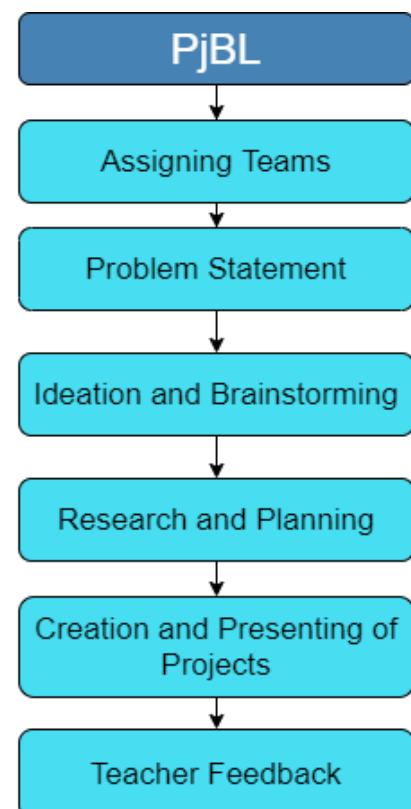
Feedback of mentoring was taken from mentees in April 2023. The faculty mentors had at least 1 one-to-one meeting with each mentee each semester and a report was submitted by all faculty mentors at the end of the academic year.

PROJECT BASED LEARNING APPROACH

Project-based learning (PjBL) is an instructional method in which students learn a range of skills and subject matter in the process of creating their own projects. Sometimes, these projects are solutions to real-world problems.

But what is most important in project-based learning is that students learn in the process of making something. They work in groups and bring their own experiences, abilities, learning styles, and perspectives to the project.

During the AY 2020-21 PjBL was introduced to the First Year Engineering students. In all, there were 71 different projects given to 71 different groups, each group consisting of three students.



They were evaluated based on the 4C's skills which stand for **Critical Thinking, Creativity, Communication & Collaboration**. Students were asked to present their work based on the guidelines that were given to them.

CLASS REPRESENTATIVES

SEM 1

NAME	CLASS
Vedika Mathews	A
Ben Furtado	A
Siddhesh Sawant	A
Aryan Chaurasia	B
Rucha Tatkare	B
Sussane Lobo	B
Aditya Shetty	C
Joel Jose	C
Saniya Padwal	C
Sankalp Rai	D
Melissa Fernandes	D
Tanmayee Ahire	D

SEM 2

NAME	CLASS
Harsh Dusane	EXTC
Melissa Fernandes	EXTC
Zubia Sarang	EXTC
Roshelle Rozario	IT
Shubham Jadhav	IT
Hemesh Chopade	IT
Amisha Verma	COMPS
Dwyane Nixon	COMPS
Shreya Chakraborty	COMPS
Vedika Mathews	MECH
Aryan Chaurasia	MECH
Sakshi Wakte	MECH

FROM THE EDITOR'S DESK

We are extremely proud to present the third volume of the FE Newsletter.

DBIT has been persistent in maintaining a holistic development of students. I would like to applaud everyone involved in providing an environment for the students to reconnect, learn and grow for a comprehensive development.

Consequently, Basic Science and Humanities Department provides the first step in setting up the foundation of future change-makers.

This newsletter offers a glimpse of efforts that were planted to make 2022-23 a vibrant and fruitful year. We have penned down the factors that are responsible for causing the masses of DBIT to head towards a prosperous future.

I want to express my heartfelt gratitude to the Principal, the Administration, the faculty members and my editorial team for putting such great effort into the making of the FE Newsletter.

-CHIEF EDITOR
PROF. SACHIN SUGAVE



EDITORIAL TEAM



Dear readers,

We as the members of itsoc bring you the official newsletter from the Department of basic science and humanities for the year 2022-2023. Our collective efforts have concluded us to bring forth what makes Don Bosco Institute of Technology so inculcating and virtuous among its students.

As the assistant editors, our main task was keeping everything short and crisp while preserving its integrity and significance. We acknowledge the invaluable cooperation and assistance extended to us by our Chief-Editor, the Head of Department, esteemed faculty members and class teachers, diligent club conveners, and dedicated student representatives. Despite the constraints of limited notice, their unwavering commitment and timely provision of essential information have been instrumental in the making of this newsletter. We express our heartfelt appreciation to each and every one involved for your unwavering support and collaborative spirit.

- ASSISTANT EDITORS
NISHA SINGH & NEHA NAIR