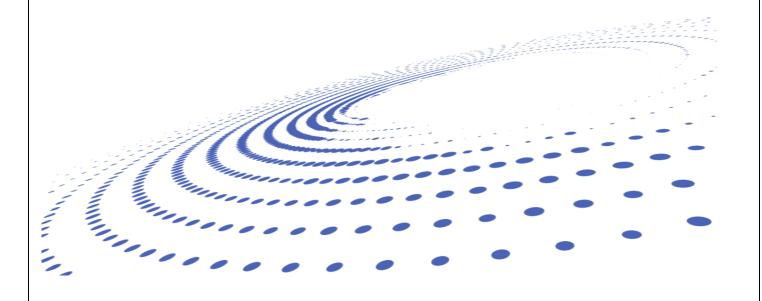


CHILDREN'S EDUCATION SOCIETY(REGD.)

THE OXFORD COLLEGE OF SCIENCE

ANNUAL REPORT 2022





"VIDYA SARVATRA SHOBHATE"

The logo statement envisions the knowledge to one and all for better future. The Institution stresses the importance of nourishing young minds with enough food for thought, sensitizing them to the socio economic realities thereby energizing them to work for bright and prosperous tomorrow.

Goddess Saraswathi the repository of knowledge or "Vidya" stands for the overall development of the student's personality that results from an ideal combination of values, knowledge and skills.

VISION



To participate in the nations march towards acknowledge society by nurturing intellectual growth and sound value systems in students through science education.



MISSION



To realize the empowering and ennobling aims of education through scientific knowledge and research by providing an excellent learning environment with emphasis on values.



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MESSAGE FROM THE CHAIRMAN AND THE PRINCIPAL



FOUNDER CHAIRMAN Late Sri S. Narasa Raju (05.06.1941-16.05.2016)

Tribute to our former chairman who had the capacity to translate vision into reality



CHAIRMAN'S MESSAGE

"Coming together is a begining, keeping together is progress; working together is sucess"



The Oxford College of Science has adapted a dynamic, creative and communicative approach in education research and development. Since science converse the broad field of knowledge that observed facts and relationships among these facts, faculty aims at facilitating the opportunities for the students and helps them to explore the world of these facts and their relationships. Keeping abstract of modern developments, the college is constantly restructuring itself and renovating its physical infrastructure as well as research and education facilities.

Our aim is to motivate and empower the students to be learners and critical thinkers throughout their lives





PRINCIPAL'S MESSAGE

"Creativity is thinking up new things, Innovation is doing new things"
-The odore Levit

Science never solves a problem without creating ten more. Science might set limits for knowledge, but it cannot set limit for imagination. Imagination is the unique human capacity to envision and hence source of all invention and innovation.

Therefore, "Science is imagination that leads to innovation



COLLEGE PROFILE

















RECOGNITION:

- Accredited with A grade by NAAC in Cycle II Recognized by IAO
- Recognized by UGC -2(f) and 12(B) status Bangalore University Permanent Affiliation Approved by AICTE
- Accredited by LSSSDC

ACCOMPLISHMENTS:

- Best Learning Environment Award by EDTECH
- Supported by DS Thunder FIST program
- Recognized Centre of Biotechnology Skill Enhancement Program
- Recognized as Research Centre by Bangalore University
- Minor Research Project UGC, GoI
- Research Grant for Scientist/Faculty(RGS/F)
- Women Scientists Scheme (WoS-A), DST, GoI
- Centre of Innovative Science Education (CISE)
- Karnataka Fund for Infrastructure in Science & Technology (K-FIST)
- Seed Money for Young Scientist Research(SMYSR)
- Small Projects in College Education (SPICE)
- Ranked No. 7 in Karnataka MDRA survey- India Today
- Ranked No. 5 in Karnataka–Hansa Research survey-The Week
- Rated A+++by Career 360
- Department of Biotechnology ranked No.1 in Karnataka by Bio spectrum



HIGHLIGHTS

- ✓ 15 University ranks with 83.5% graduation rate
- ✓ 729 students provided with The Oxford Merit Scholarship
- ✓ 652 students provided with The Oxford Unite Scholarship
- ✓ 48 students provided with TOCSAA Scholarship
- ✓ 11 International placement with overall 70% Placement and progression rate
- ✓ 42 faculty members provided with financial support under Research promotion scheme
- ✓ 106 faculty members provided with financial support for professional development under Staff Welfare scheme
- ✓ 40 faculty members provided with financial support for publications under Research promotion scheme
- ✓ 46 faculty members participated in Leadership Development Program
- ✓ 79 faculty members successfully completed Faculty Development Program
- ✓ 26 non-teaching staff participated in Staff Training Program
- Best Teacher Award for the faculty for outstanding contribution in the field of teaching
- ✓ Best Employee Award for excellent performance
- ✓ 50 MoUs/Collaborations were signed and executed
- ✓ Virtual Lab Nodal Centre initiated in association with NIT, Suratkal
- ✓ Happy Art Team led by Sri.Harsha of Department of Fashion & Apparel Design launch
 Largest Indian Map drawing on Muslin cloth on the eve of Azadika Amrit Mahotsav and
 gain entry into International Book of Records, Asia Book of Records and India Book of
 Record



GLIMPSES OF ACADEMIC EVENTS 2021-22

- The National Conference on "Science and technology for sustainable development with Women empowerment" in association with ISCA on 1.10.2021
- SKILLATHON 2022 was conducted on 02.02.2022 and 03.02.2023 by TOSSEC, a two-day event to test the hands-on skills, in which a total of 164 students participated from all disciplines.
- National Science Day with theme "Integrated approach in science and technology for sustainability future" was organized on 28.2.2022
- A two days' workshop on "Wireless Sensor Network and Internet of Things" sponsored by KSTA on 9.6.2022 and 10.6.2022
- The National Conference on "Interdisciplinary approaches: The keystone towards a sustainable future," was organized by The Oxford College of Science, HSR Layout, Bengaluru from 22.09.2022 to 23.09.2022
- A two-day lecture workshop on "Recent trends in molecular biology" sponsored by Science Academies on 12.10.2022 and 13.10.2022
- PROJETHON 2022on 14.10.2022 by R & D Cell. This event aim to provide a common platform for all the students to exchange their scientific ideas. The plat form is also meant to display their project work via poster presentation.
- Awareness program on "Call for Conversation" organized by ECO club TOCS in association with Adavi Alert foundation on 7.12.2022 and 8.12.2022
- An orientation program on Sustainable activities organized by the Eco Club of TOCS with an initiative to promote environmental sustainability and engage in sustainable activities in association with Directorate of Urban Land Transport (DULT) and HSR Citizen Forum.





National Conferences held during 2021-22





SKILLATHON -2022 • PRO JETHO N-2022





• Call for conversation in association with Adavi Alert foundation • "Recent trends in Molecular Biology" sponsored by Science Academies





 Two days workshop in association with KSTA

• Sustainable Campus by Eco warriors of TOCS







• The Graduation Day for Under Graduate (Batch of 2019-2022) and Post Graduate (Batch of 2020-2022) courses was held on 16.09.2022 and 17.10.2022 respectively.

HIGHLIGHTS

- Felicitation to 15 University Rank holders
- 12 students from each combination of undergraduate courses and 13 postgraduates of different programs were given Best Outgoing Student Award
- Ms. Ramya Venkatesh was awarded Best Student Council member
- Ms. Dayana M bagged the Best NSS Volunteer Award
- Ms.Varsha N Sali was awarded Best NCC Cadet Award
- Ms. Amulya and Ms. Preksha bagged Eco- Warrior Award
- Ms. Busireddy Malleshwari was awarded Best Cultural Achiever Award
- Mr. Rahul Sharma Shukla bagged the Best Sportsman Award
- Special Award for attempting in Guinness World Record: awarded to Sri. Harsha and Happy Art team of Department of Fashion & Apparel Design.



- Deputy Director General NCC Karnataka & Goa Air Commodore B S Kanwar, VSM a warded DDG Commendation Card to Lt.Maria Archana H on 28/02/2022.
- NSS Officer Mr. Mariswamy.N receiving letter of Appreciation from Bruhat Bengaluru





- CHEERS AND CHIMES- Annual intra-collegiate cultural fest, was conducted on 25th and 26th of February 2022.
- SPECTRA, a two day mega intra collegiate fest was organized by KALADHAMANI the Cultural club of TOCS-on 19.7.2022 and 20.7.2022 for all the UG and PG students of the college







STUDENTS WHO BROUGHT THE LAURELS TO THE COLLEGE UNIVERSITY RANK HOLDERS 2021-22





SPORTS ACHIEVEMENT



Ms. Syeda Nousheen Represented Karnataka in 43rd National Senior Level Throwball championship

Mr. Rahul Kumar National Representation Gold Medalist Cross Country Race





Mr. Salman Shreiff Silver Medalist-Taekwondo Intercollegiate Competition Bangalore University

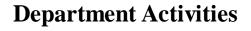
1st Runner-Ups Table Tennis Championship Intercollegiate Competition-Bangalore University



Department of Biochemistry

About the Department

The Department of Biochemistry was established in the year 2001 with combinations Biochemistry -Zoology-Microbiology. The PG course in Biochemistry was incepted in the year 2001. Biochemistry includes both chemical & biological disciplines with exponential increase in information and understanding in the field of Life Science.



AOP 6 Guest Lecture 1 Workshop/ Enrichment

EP 3

Awareness program 1

Department fest/activity conducted

- Science Exhibition Biochemical Constellation and Bio galaxy
- Awareness Program on World Health Day and World Diabetes Day
- Community Outreach Program with Samarthana

Department Achievements

- University Rank: S Vasiha Anjum, 3rd rank, M.Sc. Biochemistry: 2021-2022
- **Book Published**: Recent advances and current trends in chemical and life sciences, Joint editor, Immortal Publication, 2021 ISBN-9789354370953, by Dr. Kokila S, Assistant Professor.
- Patents Published: Nanotechnology base dipping system for water purification against bacteria, Design patent filed, National, Design Patent number 2021353916-001, by Dr. Kokila S, Assistant Professor.



Sl.No	Title of the Program		
	Add on Program		
1.	Electrolyte and Nitrogenous wastes in Blood		
2.	Clinical Significance of Liver enzymes		
3.	RT-PCR		
4.	Spectroscopy for Biochemists		
5.	Green Synthesis of Nanoparticles and its Characterization		
6.	Secondary Metabolites		
	Guest Lecture		
1.	Cellular Modelling and Understanding Neuro degeneration		
	Workshop/Enrichment		
1.	Analytical Instruments in association with Scientific and Industrial research		
2.	PCR-RFLP		
3.	RT-PCR		
Awareness Program			
1.	Sneak Peek to Adulthood		



Department of Biotechnology

About the Department

The Department of Biotechnology at the Oxford College of Science was established in the year 1998 to nurture young minds and to generate a pool of skilled manpower to cater to the ever-growing demands of this sector.

Department Activities

WS 3	EDP 1	Webinar /GL 3	Industrial Visit 9	JC 4	PBL 16	AOP 3	Conf 1
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Department Activities

Sl.No	Title of the Program		
	Add-on Program		
1.	Mammalian Cell Culture		
2.	Microbial Biofilms		
3.	UV- Spectroscopy		
	Journal Club		
1.	Effect Of Silver Nanoparticles on L. oryzasativa and its rhizosphere bacteria		
2.	Health benefits of fermented foods		
3.	The use of Soxhlet extractor for the production Of tinctures from plant raw materials		
4.	High pressure carbon dioxide used for pasteurization in food industry		
	Conference/Symposium		
1.	International Virtual Symposium on Decoding Human Brain Activity-Series II		



S1.No	Title of the Program	
	Workshop/ Enrichment	
1.	Hands-on training workshop on Analytical techniques	
2.	Workshop on Basic Laboratory Skills	
3.	Enrichment Program-Retrieving The Database And Sequence Alignment Using Bioinformatics Tool	
	Webinar/Guest Lecture	
1.	PCR Applications and Sequencing	
2.	Genetics of Cancer	
3.	Biosensors	
	PBL	
1.	Is permaculture a promising practice for sustainable agriculture?	
2.	Is decarbonizing the energy sector an environment friendly approach?	
3.	How do we mitigate floods while we capture the storm water?	
4.	How can we change the future of water for a sustainable future?	
5.	Will consumers pay more for less plastic?	
6.	Do we have a solution to reduce the adverse impacts and e-waste on ecosystem & human	
7.	Can current technological advancements help improve soil and water quality?	
8.	Can biomaterials be an eco-friendly alternative and be the future for the infrastructure	
9.	How well can we combat climate changes with the technologies at hard?	
10.	Can immunotherapy be made more affordable?	
11.	Can lives of cancer patients be saved without chemotherapy?	
12.	Can artificial intelligence and predictive analysis provide smarter healthcare solutions?	
13.	Are biosensors a promising future in measurements?	
14.	Can we replace mainstream medical treatments with alternate therapies?	
15.	Can microbiome engineering be a solution for crop improvement and sustainable	
16.	Stem cell therapies: Is it really a way to promising cures?	
	EDP	
1.	Entrepreneurship Development program on commercial tissue culture	
	Industrial Visit	
1.	Well Crop Biotech	
2.	Indo American Hybrid Seeds	
3.	Institute of Wood Science and Technology	
4.	CFTRI (Central food technology and research institution)	
5.	Swacha Graha Kalikakendra	
6.	Vriksha Vijnan Industry	
7.	Stan Agro Ventures	
8.	Big Banyan Vineyard and Resort	
9.	Fisheries Research and Information Centre	



Department of Chemistry

About the Department:

The Department of Chemistry, The Oxford College of Science started in the year 1994 with B.Sc. [CZBt, CGtBt, CZMb] combinations and M.Sc., Organic Chemistry in 2009 and has evolved in terms of academics, co-curricular and extracurricular activities. The Department provide in-depth knowledge in Chemistry in accordance with recent advances & research. Train students to be competitive enough to be employed by pharmaceutical, fermentation, food & dairy industries, diagnostic labs & research institutions in India & abroad.

Department Activities

AOP

2

Sl. No.	Title of the Program	
	Add on Program	
1.	Disinfectants	
2.	Chemistry of beverages and soft drinks	



Department of Computer Science

About the Department

Computer science department was incepted in 1995, now offers both UG and PG courses BCA, BSC (CS),M.Sc(CS)andMCA. The courses are eloquently carried to the student community such that it bridges the gap between IT industry requirements and the university curriculum. The department strives and provides industry ready professionals. The courses are delivered through lectures with excellent qualified faculty, (who are experienced both in academics and has hands on in industry), Practical sessions, Projects, Addon courses and workshops . Course modules are assessed with assignments, presentations, and examinations.



Department Fest Conducted:

Techkriti-2022 was a one day mega Inter Collegiate IT and Cultural Fest organized by The Department of Computer Science and Applications, on 16th Aug 2022. This event was organized for all UG and PG Students of our Computer Science & Application Department and participants from various other college students to enhance and expose their ability and talent from both Technical and Nontechnical both cultural as well as technical aspects.

Department Achievements:

- Department bagged to Three University Rank for M.Sc. CS and MCA for the year 2021.
- Department is also recognized as Research Centre by the Bangalore University; Faculty of department are actively engaged in research and the articles are published in Peer Reviewed Journals.



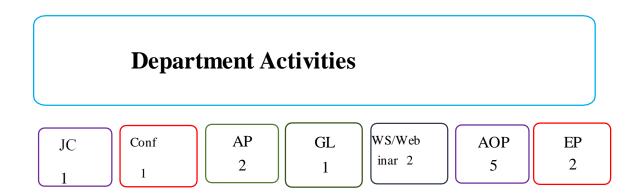
Sl. No.	Title of the Program		
Add on Program			
1.	Big Data Analytics and Hadoop		
2.	Control Systems		
3.	Reactive Native		
4.	Robotics and Python Design Patterns		
5.	Quantum Computing		
6.	Digital Image Processing		
7.	Soft Computing Techniques		
8.	Xampp and Apache		
	PBL		
9.	PBL on Theory of Computation		
	Guest Lecture		
10.	Introduction with Microsoft Sharepoint		
11.	Cognitive Intelligence – foundations and Applications		
12.	Artificial Intelligence		
	Enrichment Program		
13.	Enrichment Program on Deep Learning		
	Conference		
1.	Current Trends in computer science		



Department of Electronics

About the Department

The Department of Electronics was established in the year 1994with combinations Physics, Mathematics and Electronics (PME). A second combination of Electronics, Mathematics & Computer Science (EMCs) started in the year 2000. The PG course in was incepted in theyear 2010.



Department activity conducted:

PEERTEACHING: Based on the belief that "to teach is to learn twice" (Whitman,1998)", the current IV Semester MSc students taught the theory behind and demonstrated the experiments to II semester BSc students on 23rd September 2021. As per guidelines given to them the peer teachers had to make the students familiar with the components, pin configuration, connections on the breadboard, the working of the component/devices and principle of the experiment. Each of them was assigned experiments to be performed and explained. The experiments assigned were UJT characteristics, UJT Relaxation Oscillator, A stable Multi vibrator, Colpitt's Oscillator, FET Characteristics, We in Bridge Oscillator.

Department Achievements:

Ms.Anjali P.S. secured 4th Rank in M.Sc. Electronics from Bangalore University for the year 2021-22, is anoutstanding student of the Department. The holistic learning environment nurtured the student to attain thisacademic excellence and in turn made the College and the Department proud. This reflects the depth of guidance and efforts put forth by the team of faculty along with the commitment and hard work of the students





Sl.No	Title of the Programs		
	Add On Program		
1.	Design PCB using PSPICE		
2.	PIC Microcontrollers & Interfacing		
3.	Generations of Mobile network		
4	Arduino Meets Python		
5.	Or CAD Capture for PCB designing		
	Guest Lecture		
6.	Cyber Security		
	Workshop		
7.	Programming in Embedded systems		
	PBL		
8.	Can we have single charger for all electronic gadgets		
	Enrichment Program		
9.	LOGIC GATES		
10.	Robotics		
	Conference		
1.	Conference on recenttrends in WSN (1G, 2G,3G, 4G, 5G) Technology		
	Journal club		
1.	Generative AI		



Department of Fashion & Apparel Design

About the Department

The Department of Fashion and Apparel Design was established in the year 1999, it is affiliated to Bangalore University. It is a 3-year full term undergraduate Fashion Designing course, where it covers the study of specialized field in the area of fashion costume designing, accessory and jewelry design, fashion illustrations, Textile designing, etc.

Department Activities			
Web 4	GL 4		WS 6

Sl. No.	Title of the Program		
	Add on program		
1.	Bridal Makeup and Hairstyle		
	Guest Lectures		
1.	Career Prospects and Higher Education		
2.	Ignite India		

Department fest/activity conducted:

The Department of Fashion and Apparel Design had organized an art for Life "KALAJEEVAN" exhibition for the department students on 23rd July 2022. This day was conducted for the students to make them understand fashion products and promotion of the products by making fashion products and sales of their choice. The exhibition was full of joy with varieties of merchandise, art display and food stall. All the merchandise was exhibited for sale by giving the students different stall to manage.

Department Achievements:

The 9 members "Happy Art" team led by Mr.Murikinati Sri Harsha of TheDepartment of Fashion and Apparel Design, The Oxford College of Science set the Guinness world record for the country's "Largest Drawing" of 692.83 square meters, reflecting India's cultural heritage and monuments on the occasion of AzadikaAmritMahotsav.



Department of Languages

About the Department:

The Department of Languages of The Oxford College of Science was started in the year 1994. The staff of the Department has taken keen interest in training students for intercollegiate competitions and regularly conduct assembly in the college. Counselling in academic and emotional matters and involving in administrative work of the college are the other responsibilities of the Department. Another addition to the Department of English is the Language Lab, which is functioning in full swing to hone the student's communication skills.

Department fest/activity conducted:

A program on the many societal groups and cultures is organized by the Department of Languages. With the help of such events, the department was able to educate individuals about the intrinsic value of the various traditions practiced by different communities and the wisdom that each tradition imparts.



Department of Mathematics & Statistics

About the Department:

The Department of Mathematics started in the year 1994. The UG course was started in the year 1994 and PG course in the year 2010. The Department of Statistics was incepted in the year 2005 followed by the PG course in the year 2010. The Department aims to prepare skilled professionals in statistics.

Department Activities

AOP 4

Department fest/activity conducted:

ELMATICS, SIDDHANTIKA, GANITHALOKA and SANKHYA UTSAV are some of the activities conducted by the department to attract and hone the skills of the students in mathematics and Statistics.

Sl.No	Title of the Program
	Add On Programs
1.	Value distribution theory
2.	Algorithms and its applications
3.	Coriolis force and its modelling
4.	R programming: a statistical tool



Department of Microbiology

About the Department:

The Department of Microbiology since its inception in 1994 is committed to disseminating, inculcating and harvesting knowledge. Student centric approach and overall development of students are the vital strategy adopted in the department. Consistent University ranks and outstanding placement record are the key achievements. The Department is known for its constant innovations reflecting the creative potential with which the Department is well endowed.



Department fest/activity conducted:

Micromania, the Annual Department Fest of Arts, Sports, Cultural and Academics was conceptualized in the year 2009 to unveil the hidden talents of students. Micromania, the true spirit of entire microbiology family enables each one to participate in this event with great vigor and perseverance. Micromania Season 8.0 conducted on 28th and 29th of July 2022 witnessed tremendous spirit of bonding, leadership and sportsmanship. Ms.Deepika and Mr.Arkajit Ganguly were the coordinators of the season.

Department Achievements:

Department was Talent and luck might happen to you by chance, but learning is a skill and practice that anyone can accomplish with diligence. The Department of Microbiology was meticulous in maintain the accolades even during the new normal situation of post covid era effectively in both academic and non-academic segments. A gist of the triumphs is listed below

- Secured IV and V rank in M.Sc Microbiology
- Dr. Yogesh BJ appointed as Chairman, BOE of BU
- Conduction of Workshops, AOPs, Guest lectures, Industrial visits & awareness program.





Sl.No	Title of the program		
	Add On Programs		
1.	Azotobacter as a promising biofertilizer		
2.	Plant Growth Enhancers		
3.	Edible fungi Production		
	Guest Lecture		
1.	Nano biotechnology: concepts and applications		
2.	World Cancer day		
	Workshop/Enrichment		
1.	Effect of bio fertilizer on plant growth		
	Awareness Program		
1.	World AIDS Day		
2.	Awareness program on World Cancer Day		
	Industrial Visit		
1.	Jyothy Institute of Technology		
2.	Paramount nutrition India pvt ldt		
3.	Stroma Biotechnologies pvt Itd		
4.	Scientific and industrial research		
5.	UNIBIC foods India Pvt. LId		
6.	Swaccha Graha KalikaKendra		



Department of Physics

About the Department:

The Department of Physics (UG) was established in the year 1994 with Physics, Mathematics, Computer Science (PMCs) and Physics, Mathematics, Electronics (PME) combinations, the PG course in Physics was incepted in the year 2014.

Department Activities

AOP2

Sl. No	Title of the program
	Add On Programs
1.	Star System
2.	Optometry



Department of Zoology and Genetics

About the Department:

The Department of Zoology was incepted in 1994 for undergraduate program, with the aim of imparting quality education to young minds. The Department of Genetics was started with undergraduate program in the year 2000 and PG course in Applied Genetics in 2003. Presently, the two departments have amalgamated into "The Department of Zoology and Genetics".



Department fest/activity conducted:

Genesis is the departmental science fest conducted by the Department of Zoology and Genetics, it's a fun filled and thoughtful event that runs for almost a week with different events organized on each day where in students apply their knowledge to play the exciting activities. It not only enhances the ability of students but also give them an exposure to think and engage out of the curriculum. Every year this event is focused on a particular theme like Mendel's Legacy wherein 150th birthday of Gregory Mendel was celebrated. The fest brings in lot of science related games where students enthusiastically participate.

Department Achievements:

Many of our students cleared various competitive exams in the academic year 2021-22 including Joint CSIR-UGC NET (Athira M Sarath), JAM (Shruti Singh), GATE (Vikas Choudhary), International Level Exams (Pramod K C, Evan Joseph). Our students secured first and second positions in paper presentations in an international conference "Bio spectrum 2022- Biotechnological Advances towards Sustainable Developments".

Sl. No	Title of the program	
Add On Programs		
1.	Protoplast technology	
2.	Aqua Culture	
3.	Drosophila Genetics	
4.	Sequence Analysis tools and databases	
5.	Hematological techniques	
6.	Microtomy	



Sl.No	Title of the Program	
Guest Lecture		
1.	INLAND FISHERIES CULTURE AND PROCESSING	
Workshop/Enrichment		
1.	Aquaculture	
2.	Cytological Techniques	
3.	Immunodectection	
PBL		
1.	Gene therapy	
2.	Effect of Anesthetics, Narcotics and Venom on Neurons and Muscles	
Industrial Visit		
1.	INDUSTRIAL VISIT TO KIDWAI CANCER INSTITUTE	
Awareness program		
1.	CANCER EPIGENTICS	
2.	SMART PROTEIN - FUTURE FOOD TECHNOLOGY	



IQAC ACTIVITIES

ABOUT IQAC

IQAC was established at TOCS in 2011 as a post-accreditation quality sustenance measure to channelize the efforts and measures of an institution towards academic excellence. IQAC adopts multifaceted integrated approach involving all the stakeholders for all the quality measures to fulfill the dream of achieving excellence. IQAC ensures quality literacy among all its stakeholders, prepares quality strategy for execution, conducts quality audit periodically, obtains 360°quality feedback from all the stakeholders, crafts quality policy, provides participative quality governance, delivers quality academics and performs quality research thus developing the quality culture of the institution that leads to quality quotient enhancement and thereby quality sustenance.

Accordingly, IQAC, regularly conducts conferences, seminars, inter/intra institutional workshops on quality related themes and faculty development programs, staff training programs, professional development programs to upgrade and update the professional skills of faculty and staff.

In 2021-22 IQAC organized 2 Faculty Development Program, 1 Professional Development Program, 2 Leadership Development Program and 2 Staff training Program. Altogether, 82% teaching and non teaching staff had participated for the same, 3 Faculty had participated in UGC sponsored Refresher Course (Life Science).

Sl.No	List of FDP, PDP, LDP & STP organized during 2021-22	
Faculty Development Program		
1.	Faculty Development Program on governance (JUNO)	
2.	Faculty Development Program on mathematical skills applied to physical system	
Professional Development Program		
3.	Professional Development Program on Gerber software	
Leadership Development Program		
6.	Leadership Development Program on leadership etiquette	
7.	Leadership Development Program on a stimulated you to carve	
	pioneering leaders for the future	
Staff Training Program		
8.	Staff Training Program on Maintenance of sewing machines	
9.	Staff Training Program on first aid techniques and fire safety	
	measures	



Teaching-Learning-Evaluation

- 8 workshop, 13 enrichment program, 5 guest lecture, 25 industrial visit, 10 webinar and 37 PBL were conducted as part of Curriculum supplementing programs.
- ➤ 14 Co-curricular clubs Yoga & Meditation club, Science Club, College Magazine club, Toast masters Club, Literary club, Techno craft club, Home Science Club, Eco Club, Art and Kraft club, Awareness club, Aptitude club, Kannada kali club, Value Education Club, Joy of Giving club were floated that has conducted 28 activities with 403 students' participation.
- ➤ 39 Add-on Programs were offered and 1179 number of students successfully completed the course.
- ➤ 17 students have successfully completed online certificate courses offered by NPTEL, Course and Swayam.
- ▶ 60 students were groomed to excel in University exams and bagged 15 University ranks.
- ▶ 83.51% of students successfully graduated from respective courses.
- > 9 techno-cultural fests, 1 exhibitions 3 sports activities, were conducted for holistic development of students.
- Virtual Lab Nodal Centre initiated in association with NIT, Suratkal.



Research Innovations

- ➤ VGST project under Scientific Research for Faculty was awarded to Dr. Kokila S., with a grant of 3 lakh for the project entitled "Comprehensive tissue specific proteome analysis of heat stress in kodo millet (Paspalumscrobiculatum)".
- > 50 MoUs/Collaborations have been signed for research, internships and projects.
- ➤ 42 faculty members provided with financial support for attending conferences, seminar, workshops, refresher course and FDPs under Research promotion scheme
- ➤ 40 faculty members provided with financial support for publication of original research articles and book chapters under Research promotion scheme
- National Seminar on "Integrated approach in Science and Technology for Sustainable Future" was organised.
- Lecture Workshop on "Recent Trends in Molecular Biology" was organized.
- Handon Workshop on "Wireless Sensor Network and Internet of Things" was conducted for Electronics and Computer Science Students.
- Entrepreneurship Development Program on "Commerical Tissue Culture", was organized for faculty and students of Life Science departments.
- PR Programs on 'Recent patents in Industrial strain development', 'Innovations in Nuclear Medicine', 'In- Silico methods for Research data analysis' 'Cyber Security' and 'Artificial Intelligence and Intellectual Property Rights' and 'Patent filing for exclusive rights' were conducted for Faculty and Students.
- ▶ 46 In-house Student Research Projects were undertaken and completed.



Carrier Guidance - Placement

- Career Guidance Program on jobs in corporate sector, PCR & Next generations sequencing and Campus to Corporate were organized. CSIR Coaching and Beyond-Exploring careers path in science, CSIR Coaching, Competitive exam preparation, Pathway to lectureship and Research fellowship were conducted as part of Career Counseling Program.
- ➤ 26 placement drive were arranged and 53 number of companies visited the campus.
- ➤ 11 International placement with overall 70% placement and progression rate of Final Year students and an overall 87% Placement and progression rate including the preceding batches. .
- Mentoring session were conducted and 75% of students were benefitted by the same.
- ➤ 10Alumni activities were conducted and 48 students provided with TOCSAA Scholarship



Administration

- Awareness programs on Anti-Ragging & Anti-Sexual Harassment were organized for both UG and PG students.
- Programs on Ethics and values and joy of giving were organized to sensitize students towards human values.
- A Program on Inclusivity and oneness was conducted to create awareness on Unity and Diversity among the students.
- Annual Cultural fests- SPECTRA, KALARAVA, CHEERS AND CHIMES, TECHKRITI 2K22 and departmental fest to name a few- Micromania, eGalaxy were organized to maintain vibrant environment.
- > Sports meet like UG Indoor games, National Sports Day and Inter departmental Shuttle Badminton competition were held as part of sports activities.
 - ➤ Happy Art Team led by Sri.Harsha of Department of Fashion & Apparel Design launch Largest Indian Map drawing on Muslin cloth on the eve of Azadi ka Amrit Mahotsav and gain entry into International Book of Records, Asia Book of Records and India Book of Record
- > 729 students provided with The Oxford Merit Scholarship
- ➤ 652 students provided with The Oxford Unnati Scholarship.
- ➤ 46 faculty members participated in Leadership Development Program
- > 79 faculty members successfully completed Faculty Development Program
- > **Dr.Nirmala Nair**, of the Department of Biotechnology received the **Best Teacher Award** for the outstanding contribution in the field of teaching.
- ➤ 26 non-teaching staff participated in Staff Training Program
- Mr. Tarikoppa G.L., Lab. Assistant, Dept. Of Biotechnology received the Best Employee Award for excellent performance



Extension, Outreach, Awareness & Sensitization:

- Deputy Director General NCC Karnataka & Goa Air Commodore B S Kanwar, VSM awarded DDG Commendation Card to Lt.Maria Archana H.
- NSS Officer Mr. Mariswamy. N received letter of Appreciation from Bruhat Bengaluru Mahanagara Palike.
- 18 Extension/Outreach Programs highlighting the importance of cleanliness, environmental concerns and human values were conducted by NSS and NCC unit of the College.
- National Pollution Control Day, National Energy Conservation Day, World Environment Day were observed to sensitize students on environmental concerns.
- Green initiatives like Green Campus Initiative- Green Wall, Sustainability- Need of The Hour, Awareness – Clean and Sustainable Campus, Eco-friendly Tie and Dye on Cotton and Silk Fabrics were implemented in the campus.
- An orientation program on Sustainable activities organized by the Eco Club of TOCS with an initiative to promote environmental sustainability and engage in sustainable activities in association with Directorate of Urban Land Transport (DULT) and HSR Citizen Forum



Quality Enhancement-sustenance

- ➤ Quality literacy programs was conducted for faculty and students during the orientation.
- ➤ Internal and External audit for academic, administration as well as Green audit were conducted.
- Faculty Development Program, Profession Development Program, Leadership Development Program for faculty and Staff Development Program for the Non teaching staffs were organized for quality enhancement.
- ➤ Ranked in the "Silver Band with B++ Grade" in The OBE Rankings 2022 and is positioned as, The Premier Institution for Academic Excellence, in India.
- ➤ Ranked in the "Silver Band" in the Mental Health and Wellbeing (MHW) Rankings 2022.
- ➤ Participated in India-Today, The WEEK College Ranking Survey and positioned at5th in **Karnataka** by The Week survey .7thin **Karnataka**by the MDRA survey- India Today.
- > Virtual Lab Nodal centre was initiated in association with NITK, Suratkal.
- > Institutes innovation council was set up.
- ➤ Green policy and Resource Mobilization Policy was newly introduced and existing policies were amended.



PHOTO GALLERY





































