

**World Cancer Day
(WCD-2025)**

Cancer Awareness Program

**Theme
“UNITED BY UNIQUE”**

4th February, 2025

Organized by
Department of Life Sciences
(Biochemistry & Bioinformatics)
GITAM School of Science



GITAM (Deemed to be University)
(Estd. u/s 3 of UGC Act 1956)

Rushikonda,
Visakhapatnam – 530045
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www.gitam.edu

GITAM (Deemed to be University)

Gandhi Institute of Technology and Management (GITAM), is a Deemed to be University under section 3 of the UGC Act 1956. GITAM is a premier educational institution in the country established with a vision to impart futuristic and comprehensive education of global standards with a high sense of discipline and social relevance in a serene and invigorating environment. GITAM is located in Visakhapatnam and has two campuses at Hyderabad and Bengaluru. GITAM offers multidisciplinary programs at UG, PG & Doctoral levels. It is one of the Deemed to be Universities that has been accorded 12-B status by UGC facilitating the university to receive funds from different funding agencies. GITAM was awarded Category-I graded autonomy by UGC-MHRD. GITAM was accredited by NAAC with “A++” grade and approved by AICTE. GITAM has achieved many milestones since its establishment and a mark of its own in the field of higher education. Late Dr. M.V.V.S. Murthi, visionary, industrialist, educationist, philanthropist, and former parliamentarian had guided the destinies of the University since its inception. Now under the leadership of Honorable President Shri M. Sri Bharat, GITAM has become a diverse and dynamic educational institute.

GITAM School of Science

GITAM School of Science was established with a main emphasis on academics and research in the basic and emerging areas of Science with contemporary relevance.



Sir CV Raman Bhavan Building

School of Science offers BCA and B.Sc. under graduation programme with combinations of major and minors. M.Sc., MCA, M.Phil., and Ph.D. programs in Applied mathematics, Biochemistry, Bioinformatics, Chemistry, Biotechnology, Computer Science, Electronics, Physics, Environmental Science, Food & Nutrition, Microbiology, etc.

Department of Life Sciences (Biochemistry and Bioinformatics) Academics.

Biochemistry course was started in 2001, later changed to Biochemistry and Molecular Biology and is devoted for holistic nurturing of the students to achieve academic heights. The curriculum is designed to cover basics to advanced aspects. The teaching-learning process is woven around project works, seminars, field work and industrial visits apart from generic theoretical issues. Innovative

teaching methodology and extensive wet lab practical training impart hands-on experience in the respective fields. This also enables the students to qualify in CSIR, ICMR, GATE, IARI, BINC Examinations etc.

The department offers the following programmes under National Education Policy with inclusion of Major and Minor courses

Undergraduate Programme

B.Sc. in Biochemistry (Hons.)-4 years

Postgraduate Programme

M.Sc. in Biochemistry and Molecular Biology

Doctoral Programmes

Ph.D. in Biochemistry

Ph.D. in Bioinformatics

Research

The faculty is actively involved in research in the areas of Cancer Biology, Immunology, Genetic engineering, Clinical biochemistry, Structural bioinformatics, Drug designing, Stem cell biology, and Neurobiology.

The thrust areas of research in the department include Cancer biology, Bioactive compounds from medicinal plants and marine sources, and Bioinformatics. The faculty publishes research papers in National and International journals of repute, and 45 Ph.D. and 2 M.Phil. degrees were awarded by the department.

Fifteen major and six minor research projects worth Rs ~15 crores funded by DST, DBT, UGC, DRDO, CSIR, ICMR, DAE-UGC-CSR, and GITAM were completed. Five major research projects funded by DBT and DST of worth Rs ~5 crores. SPARC Project with Rs 75 lakhs in collaboration with Stanford University, USA are in progress.

In addition, Funds were also sanctioned (15crores) for Infrastructure (FIST) and PURSE by DST, New Delhi. Also our students received CSIR-NET and DST-Inspire Junior Research Fellowship for pursuing Ph.D. in reputed National institutes, and recipients of University gold medals successively since the inception of GITAM (Deemed to be University). A significant number of students are pursuing post-doctoral research and higher degrees in advanced research labs both in India and Abroad.

Placements

Our ALUMNI occupied pivotal positions in reputed organizations such as Bioserve, NIN, IILs, ICMR, Dr. Reddys' laboratories, and Shantha Biotech.

About World Cancer Day Program

Over the last several decades, cancer biologists' efforts have revealed numerous insights into the genetic basis of cancer and identified genetic similarities across different types of tumors that have led to therapeutic approaches based on tumor molecular characteristics. This pioneered the integrated proteogenomic analysis of a growing number of cancer types. Fundamental research in cancer immunology and genetics contributed to identifying immune checkpoint inhibitors and precision medicine to treat patients with more than 15 types of cancer.

Research on the biology of cancer starts with understanding development and progression, including investigating the biological differences between normal cells and cancer cells, the mechanisms that underlie fundamental processes such as cell growth, the transformation of normal cells to cancer cells, and the metastasis of cancer cells.

Future research on cancer biology with the simultaneous advancements in technologies are driving novel insights into mechanisms and treatment regimens that were never thought possible. This is leading to a revolution in precision treatments for various types of cancer.

The cancer awareness program will explore these genetic changes and elucidate the underlying mechanisms by which they cause cancer. The knowledge gained from "World Cancer Day" will help graduate, post-graduate students, and research scholars, and faculty to identify the mechanisms of how tumors evolve and respond to or resist treatment.

Also, how cellular processes such as cancer cell metabolism, stress responses, and cell cycle regulation contribute to cancer development and progression, recent advances on the influence of tumor microenvironment on tumor progression, and regression.

Participants will also explore the use of immune cells as cancer interventions and investigate how microbiomes, the communities of microbes that inhabit the gut and other tissues, shape the immune system and responses to cancer treatment. The knowledge gained from this program will lead to patent-driven research, and high-impact publications and also drive tomorrow's advances to help patients with cancer get the best targeted treatments.

Theme of the Year (2025-27)

'UNITED BY UNIQUE'

This theme focuses on a people-centered approach to cancer care.

The theme emphasizes that each person's cancer experience is unique and that people are more than their diagnosis. The campaign aims to raise awareness and encourage people to take action to improve cancer care

COMMITTEE

<i>Chief Patron</i>	Prof. K. S. Krishna Dean, School of Science, GITAM
<i>Patron</i>	Prof. K. Vedavathi Principal, GSS, VSP
<i>HoD</i>	Prof. N. Srinivas
<i>Convener</i>	Prof. Rama Rao Malla
<i>Co-Convener</i>	Dr. P. Vasudevaraju
<i>Organising Secretary</i>	Dr A. Krishna Chaitanya
<i>Advisory Members</i>	Prof. Ch. Surekha
	Prof. K. Vijaya Rachel
	Dr. N. Nageswara Rao Reddy
	Dr. P. Shanthilatha
<i>Members</i>	Dr. K. Hanumantha Rao
	Dr. Niranjana Kambi
	Dr. Shahnaz Rahman Lone
	Dr. Rajdeep Das

RESOURCE PERSONS

Dr. B. Ravishankar
Chief Guest
Oncologist & Managing Director
Omega Hospitals
Visakhapatnam

Dr. Bala Stalin Chowdry
Guest of Honour
Chief medical Oncologist
MGCHR, Visakhapatnam

Dr. N. Raghu Vamsi,
Guest of Honour
Chief Surgical Oncologist
Smart Visakha Cancer Clinic
Unique Hospitals
Visakhapatnam

REGISTRATION

There is no registration fee for the participants

Registration link:

<https://forms.gle/9UirJ1br343CNdLh6>



For further details contact:

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