

DEPARTMENT OF BIOCHEMISTRY & NUTRITION
STAR-DBT SCHEME
2022-23

S.NO	Programmes offered
1	B. Sc (MBBCC) - Microbiology, Biochemistry, Chemistry
2	B. Sc (MBN&DC)-Microbiology, Nutrition & Dietetics, Chemistry
3	B. Sc (BCNDC)-Biochemistry, Nutrition & Dietetics, Chemistry
4	M. Sc (Biochemistry)
5	Ph. D (Biochemistry)

Department of Biochemistry & Nutrition

Faculty Profile (2022-23)

S.No	Name of the Faculty	Qualification	Designation	Teaching Experience
1.	Dr. A. Sai Padma	M.Sc., Ph.D	Asst Prof & Head	22 yrs
2.	Dr. S. Padma	M.Sc., Ph.D	Asst. Prof	21 yrs
3.	Mrs. D. Rajani	M.Sc., NET	Asst. Prof	22 yrs
4.	Mrs. S. Vanitha	M.Sc., APSET	Asst. Prof	18 yrs
5.	Dr. Manju Devi. S	M.Sc., Ph.D	Lecturer	4 yrs
6.	Dr. G. Kamala	M.Sc., Ph.D	Lecturer	10 yrs
7.	Mrs. Revathi Vedantham	M.Sc ., NET	Lecturer	7 yrs
8	Ms. Shayari Das	M.Sc ., NET	Lecturer	2.5 yrs

Support Staff

Mr. B. Kishan Babu

B.Sc., B.Ed

Projects completed 22-23

S.NO	Name of the students under faculty	Title of the project	No of beneficiaries	Nature of beneficiaries
1	Ms. Vamika Anil Dr. Kamala Golla	Docking studies: FoxP3 with antimicrobial peptides	1	BSc I Year BCNDC
2	Ms.Antima Sharma , Nandini Sharma Ms. Shayari Das	Study on effectiveness of Front of pack nutrition labelling of Packaged foods”	2	
3.	Ms. Vamika Anil Mrs. S. Vanitha	Phytoremediation of toxic elements in polluted soil	1	

FIELD VISITS TO INSTITUTES/INDUSTRIES (Interdepartmental) -3

S.N O	Activities conducted (22-23)	Dates	No of beneficiaries
1	Visit to National Institute of Nutrition, Tarnaka, Hyd “Eat Right Mela& Walkathon”	7 th May2022	MBNDC I &II yr 31 students
2	Visit to Basavatarakam Indo-American cancer Hospital & Research Institute, Hyd	30 th July,2022	MBNDC II yr 4 students
3	Visit to Gleaneagles Global Hospital, Lakdikapul, Hyderabad	29 th October,202 2	MBNDC III yr 35 students



Visit to National Institute of Nutrition, Tarnaka, Hyd “Eat Right Mela & Walkathon” 7th May, 2022



Visit to Basavatarakam Indo-American cancer centre 30th July, 2022

FIELD VISITS



Visit to Gleneagles Global Hospital , 29th October, 2022

Training programmes attended by faculty of the Department (2022-23)- 15

Name of the faculty	Details of the course	Duration of the course	Institute/organisation
Dr.A.Sai Padma	National Level Workshop “curriculum Framework” for Undergraduate Programmes: Engineering and General Degree Courses	17-03-2023 to 18-03-2023	Collegiate education and Technical Education Department, Govt of Telangana
Dr.A.Sai Padma	IP Awareness/Training program under national Intellectual Property Awareness Mission	20-02-2023	Intellectual Property Office, India
Dr.S.Padma	40 hours online FDP on “Recent Trends in Bioinformatics (Interdisciplinary)”	26-08-2022 to 4-09-2022	Ministry of Electronics and Information Technology(MeitY) organised by E&ICT Academy, NIT Warangal and University college of Engineering (BIT Campus), Anna University, Tiruchirappalli
Dr. S. Padma	Participated in IP Awareness/Training program under national Intellectual Property Awareness Mission	10-01-2023	RGNIIPM, Nagpur
Dr. S. Padma	IP Awareness/Training program under national Intellectual Property Awareness Mission	20-02-2023	Intellectual Property Office, India
Mrs. S.Vanitha	40 hours online FDP on “Recent Trends in Bioinformatics (Interdisciplinary)”	26-08-2022 to 4-09-2022	Ministry of Electronics and Information Technology(MeitY) organised by E&ICT Academy, NIT Warangal and University college of Engineering (BIT Campus), Anna University, Tiruchirappalli
Mrs.S.Vanitha	Participated in IP Awareness/Training program under national Intellectual Property Awareness Mission	20-02-2023	Intellectual Property Office, India

Training programmes attended by faculty of the Department (22-23)

Name of the faculty	Details of the course	Duration of the course	Institute/organisation
Dr. S. Manju Devi	National Level Online Faculty Development Program on Outcome Based Education (OBE)	16 -02-2023 to 22- 02-2023	IQAC of JPM Arts and Science College, Kanchiyar, Idukki in association with IPSR solutions limited, Kottayam
Dr. S. Manju Devi	Mentoring Pedagogy & Classroom Delivery Enhancement Techniques	03-08-2022 to 10-08-2022	E & ICT Academy, IIT, Guwahati & BTLC-BVC
Dr. S. Manju Devi	Participated in IP Awareness/Training program under national Intellectual Property Awareness Mission	10-01-2023	RGNIIPM, India
Dr. S. Manju Devi	Participated in IP Awareness/Training program under national Intellectual Property Awareness Mission	20-02-2023	Intellectual Property Office, India
Dr. G. Kamala	7 Day National Level Online Faculty Development Program on Outcome Based Education (OBE)	18 -01- 2023 to 25 -01- 2023	S.E.S College, Sreekandapuram in association with The Kerala State Higher Education Council (KSHEC)
Mrs. Revathi. V	Mentoring Pedagogy & Classroom Delivery Enhancement Techniques	03-08-2022 to 10-08-2022	E & ICT Academy, IIT, Guwahati & BTLC-BVC
Mrs. Revathi. V	Online 3 months course in Nutrition (Ayurveda)	05-09-2022 to 05-12-2022	Uvas Ayurveda, Benguluru.
Ms. Shayari Das	Participated in IP Awareness/Training program under national Intellectual Property Awareness Mission	10-01-2023	RGNIIPM, India

Awareness/exhibition programmes- (Interdepartmental)- 4

s.No	Activity	Date	No of beneficiaries
1	Exhibition of posters on the occasion of World Health Day on the theme “ Our Planet, Our Health ”	7th April, 2022	37
2	Poster presentation on the occasion of world heart day	29 th September, 2022’	700
3	Awareness on the significance of agricultural production, better nutrition, a better environment, and a better life- Online Quiz on “Leave No One Behind” - on the occasion of World Food day	16 th October,2022	Open quiz for students and faculty-213 participants
4	An outreach program “ Gnana Prajavalam ” was organised by IQAC, BVC, on in which the Department of Biochemistry & Nutrition demonstrated experiments to high school students	17 th Dec 2022,	15 schools, 61 students

World Health Day on 7th April, 2022, with the theme “Our Planet, Our Health”.



An outreach program “Gnana Prajavalam



World heart day
21st September & 29th September,2022



**Dr. Deepak Saha, Senior Interventional Cardiologist,
Virinchi Hospitals, Hyderabad with faculty**



Faculty encouraging students poster presentation



Poster presentation by students- 29th September,2022

Seminars (Interdepartmental)-2

s.No	Activity	Date	No of beneficiaries
1	Rashtriya Poshan Maah-2022 on the theme “Mahila aur Swasthya and Bacha aur Siksha” was organized and the chief guest for the event was Dr. Jyothirmayi, Principal Scientist, CFTRI, Hyderabad.	22 nd and 23 rd September, 2022	113
2	National Science day on the theme- Global Science for Global well being” was organized by all life sciences departments,. The chief guest for the program was Prof. G Malleshham, Dean, Development & UGC Affairs at Osmania University, Hyderabad.	28 th February, 2023	120



Chief guest Prof. G Malleshham, Dean, Development & UGC Affairs at Osmania University, delivering the keynote address on the occasion of National Science Day, 28th Feb, 2023

“Rashtriya Poshan Maah– 2022” Celebrations (22nd and 23rd September, 2022)



Nutrifeast: Students selling healthy and tasty recipes



Poster presentation by students



Students participating in various activities

Training programmes for students-(Interdepartmental)- 2

S.N O	Activities conducted	Dates	No & Nature of beneficiaries
1	Value added course (certificate course): “Hands on cum Quality Control Training Programme on Food Processing and Preservation” of 30 hours was organised in collaboration with CFTRI (Centre for Food Technology Research Institute), Habsiguda	13 th to 16 th of February, 2023	14 UG (MNDC) III year students
2	Training in First Aid and Cardio Pulmonary Resuscitation(CPR): an awareness and training program on First Aid and Cardio Pulmonary Resuscitation(CPR) was organised in association with Medical and Health Committee, NCC, NSS,BSG and YRC units of the college.	4th March, 2023	135



First Aid Training 4th March, 2023



Value Added Course 2022-23

“Hands on cum Quality Control Training Programme on Food Processing and Preservation”

CFTRI (Centre for Food Technology Research Institute), Habsiguda, Hyderabad. 13th to 16th of February, 2023.



Invited Lectures (2022-23)-6

S. No	Name	Designation/Host institute	Duration of visit	Topic of lecture	Date	No of beneficiary
1	Dr. Trinath Jamma	Assistant Professor, Department of Biological Sciences, BITS-PILANI, Hyderabad campus, Shameerpet, Hyd	Half day	SOP-a path to effective communication to research	31 st October, 2022	66
2	Dr. Jyothirmayi	Principal Scientist, CFTRI, Hyderabad	One day	Eat Healthy with a world of Flavour”	22 nd and 23 rd September, 2022	113
3	Dr. Latha Sashi	Chief Nutritionist& Head, Department of Clinical Nutrition and Dietetics, Fernandez Hospitals, Hyd	One day	“Health on the plate”	22 nd and 23 rd September, 2022	
4	Mrs. Pooja Vishal Maulikar	Examiner of Patents & Designs, RGNIIPM, Nagpur	Online	Intellectual Property Rights & Patents & Design Filing	10 th Jan, 2023	103
5	Dr. Dasari Ayodhya	Examiner of Patents and Design Intellectual Property India, Indian Patent Office, Chennai	Half day	Intellectual Property Rights	20 th February, 2023	171
6	Dr. K. Prasanna Latha	Senior Scientist, Global medical Education and Research Foundation (GMERF)	One day	Integrated strategies used in liver transplantation	28 th Feb,2023	120

Guest lectures 2022-23



Dr. Trinath Jamma, Assistant Professor, Department of Biological Sciences, BITS-PILANI, Hyderabad Campus, Shameerpet, Hyd
31st October 2022



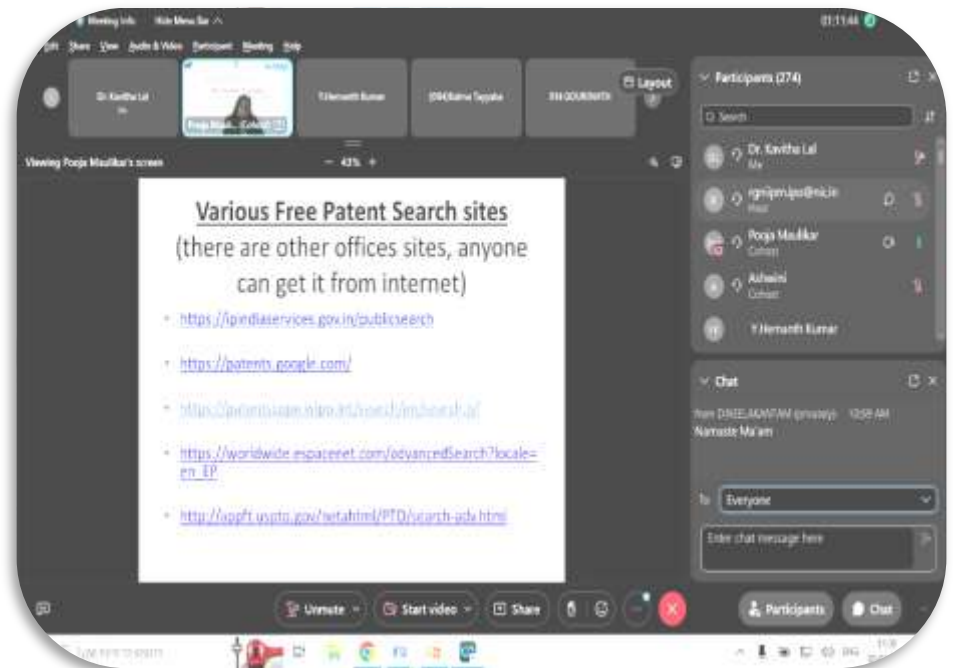
**Guest lecture by Dr. Jyothirmayi,
Principal scientist, CFTRI**



Guest Lecture by Dr. Latha Sashi, Chief Nutritionist & Head, Department of Clinical Nutrition and Dietetics, Fernandez Hospital, Hyd



Dr. K. Prasanna Latha, Senior Scientist, GMERF, Hyderabad, Delivering the lecturer on the occasion of National science day



Mrs. Pooja Vishal Maulikar lecture on Intellectual property Rights.- 10th January,2023



Dr. Dasari Ayodhya delivered a guest lecture on Intellectual property rights- 20th February, 2023

Popular lectures (Inter departmental)- 3

S. No	Theme of the Programme	No of Participants	Date of the Event
1	Awareness lecture by Dr.Deepak Saha, Senior interventional cardiologist, Virinchi Hospitals Hyderabad	112	21 st September, 2022
2	“Mighty Millets & 3A’s (Availability, Accessibility & Affordability)” by Dr.Subbarao M Gavaravarapu, Scientist F & Head,Nutrition Information, communication & Health education, ICMR-NIN, Tarnaka, Hyd	55	10 th January, 2023
3	National Science Day “ Global Science for Global well being” by Prof. G Mallesham, Dean, Development & UGC Affairs at Osmania University, Hyderabad	120/B.Sc students	28 th February, 2023

New Experiments introduced in the academic year 2022-23

1. Collection of blood and storage.
2. Separation and storage of serum.
3. Estimation of blood glucose by glucose oxidase-peroxidase method.
4. Estimation of serum Triglycerides.
5. Estimation of bilirubin (direct and indirect).
6. Use of urine strip / dipstick method for urine analysis.
7. Quantitative determination of serum creatinine.
8. Estimation of creatine kinase MB.
9. Estimation of SGOT.
10. Isolation of lipids from biological samples.
11. Determination of peroxide value.

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Department of Biochemistry & Nutrition

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2.	Dr. S. Padma	M.Sc., Ph.D	Asst. Prof	21 yrs
3.	Dr.. S. Vanitha	M.Sc., APSET, Ph.D	Asst. Prof	18 yrs
4.	Dr. Manju Devi. S	M.Sc., Ph.D	Lecturer	4 yrs
5.	Dr. G. Kamala	M.Sc., Ph.D	Lecturer	10 yrs
6.	Mrs. Revathi Vedantham	M.Sc ., NET	Lecturer	7 yrs
7.	Ms. Shayari Das	M.Sc ., NET	Lecturer	2.5 yrs
8.	Dr.M.V.Shalu	M.Sc.Ph.D	Lecturer	4 months

Support Staff

Mr. B. Kishan Babu

B.Sc., B.Ed

Ongoing projects 2023-24

S.NO	Names of students under faculty	Title of the project	No of beneficiaries	Nature of beneficiaries
1	C.Parama, Suprita,Vinay, Akanksha, Dr. Kamala Golla	Study on the role of bioactive compounds as inhibitors of hyaluronidase and control of polyuria in diabetes	4	B.Sc III yr MBiC students
2	Harsh Jain, Khushi Bansal, Ricika Kumari, Lakshmi, A.Hemanth Dr. S.Vanitha	1.Isolation and determination of phytase activity in germinating seeds under salinity conditions 2. Extraction and determination of lipids in processed foods	3 2	

INTERDEPARTMENTAL PROJECTS 23-24

1	Ms.Antima Sharma Nandini Sharma, Princy, Sagarika, Samaja, Dr. S. Padma	Comparative study on the biochemical and antimicrobial properties of vegetable and fruit peel extracts	5	BSc II yr BCNDC
2	Vamika Anil, Esha, Jyothi Lal, Deepika,Harshitha, S.Prerna, Sreema ,Dr. S. Manju Devi	Biochemical analysis of virgin coconut oil and its antiaflatoxogenic potential on high risk agricultural commodities	7	

FIELD VISITS TO INSTITUTES/INDUSTRIES -3

S.N O	VISTI	Dates	No of beneficiaries
1	Visit to CSIR- CCMB “One Week, One Lab” program	1-08-2023	28
2	Visit to Yashoda Hospital, The Chief Dietician Mrs. Swetha A. (Registered Dietician) has addressed the students about the role and job profile and the challenges faced by dietitian in clinical practice.	30-09-23	26
3	Visit to Indian Immunologicals, Gachibowli, Hyderabad	29-01-2024	7



One week-One lab-CSIR-CCMB visit- 1st August 23



Visit to Yashoda Hospital 30th September, 2023

Training programmes attended by faculty of the Department (23-24) -8

S.No	Name of the faculty	Details of the course	Duration of the course	Institute/organisation
1	Dr. S. Padma	Workshop on Fundamentals of Mathematical Biology	11-05-2023 & 12-05-2023	Indian Institute of Information Technology, Allahabad, India
2	Dr. S. Padma	Two-day hands on workshop on Data visualisation for biologists in Python & R	26-11-2023 & 27-11-2023	Bioanalytics skill development Forum, IIT ,Bombay
3	Dr. S. Vanitha	One week faculty development program on "MOOCS and E-content development"	29th April 2023- 5th May 2023	Guru Angad Dev Teaching Learning Center under the Pandit Madan Mohan National Mission on Teacher and Teaching of Ministry of education, SGTB Khalsa College, University of Delhi.
4	Dr. S. Vanitha	Two days offline workshop on “Vaccine technology”	20-1-2024 & 21-1-2024	Ethical Edufabrica Pvt ltd in association with Pravega, 2024, Indian Institute of Science, Benguluru
5	Dr. S. Manju Devi	one week faculty development program on "Avenues of biotechnology-2023"	03-07-23 to 09-07-23	SRM Institute of Science & Technology, Ramapuram Campus, Chennai
6	Dr. S. Manju Devi	IP awareness training program under National intellectual property awareness mission	25-09-2023	Intellectual Property Office, India
7	Dr. Kamala Golla	3 day hands on national workshop on Gene cloning	24-04-2023 to 26-04-2023	Department of Microbiology, Nizam college, OU
8	Mrs. Revathi. V	One week faculty development program on "MOOCS and E-content development"	29th April 2023- 5th may 2023	Guru Angad Dev Teaching Learning Center under the Pandit Madan Mohan National Mission on Teacher and Teaching of Ministry of education, SGTB Khalsa College, University of Delhi.

Awareness/exhibition programmes ((Interdepartmental))- 10

S.N O	Name of the activity	Dates	No of Posters/exhibits
1	Awareness on pollution, eating highcalorie food, junk food, unprotected food, overeating, malnutrition, lack of sanitation and hygiene.- 21 reels	22-07-2023 to 27-07-2023	21
2	E poster competition on the theme“ Let’s Make Breastfeeding and work, work”	18-08-23	13
3	Millet mela -Awareness activity on the use of on the occasion of International Year of Millets by United Nations General Assembly	1-09-2023	10
4	Millet Lunch Box” Awareness activity on the use of on the occasion of International Year of Millets by United Nations General Assembly-	23 -08-2023 to 14-09-2023	39
5	A video making competition on “ Cinematize – Cooking of Millet Recipes”	4-09-2023 to 11-09- 2023	16
6	Awareness on millet usage-Millet Poster Exhibition”	14-09-2023	23
7	Science club activity to inculcate enthusiasm to understand biochemistry	16-09-2023	25
8	Exhibits to create awareness on diabetic diet	25-11-23	27
9	Dietetics Day” on the theme “Role of Dietitians and Nutritionists in Public Health Issues”. a poster presentation was organized with a theme of “ Facts of Processed Foods”	10-01 2024	70
10	An outreach programme “ Orientation on practical aspects of Biochemistry and Allied subjects” -	17 th &18 th November.	67



Reel making competition to spread awareness on the effects of eating high calorie and junk food



An outreach programme “Orientation on practical aspects of Biochemistry and Allied subjects” -



poster presentation on the occasion of breast feeding week

Awareness on the usage of millets- International Year of Millets



Millet Lunch box 23rd August to 14th September, 2023



Millet Mela 1st September, 2023

"Millet Poster Exhibition" 14th September, 2023





DIETETICS DAY- POSTER EXHIBITION- 10th January, 2024



SCIENCE CLUB ACTIVITY 16th September, 2023

Seminars organised (Interdepartmental)-1

S.N O	Title of the event	Dates	No of beneficiaries
1	“Rashtriya Poshan Maah – 2023” Celebrations. Chief Guest Prof. C. Anjali Devi, former head, Dept. of Food & Nutrition, O.U. Hyderabad.	21-09-2023	133



Faculty with Keynote speaker and the guest speaker



Research Article Presentation by UG students

Training programmes for students- 2

S.N O	Activities conducted (23-24)	Dates	No of beneficiaries
1	Workshop on “Conventional and RT PCR” In collaboration with Global Medical Education and Research Foundation (GMERF), Lakdikapul, Hyderabad.	12-12-23 to 14-12-23	20
2	Hands on training in “Bioinformatics and Bioanalytical techniques”	1-12-2023-31.1.2024 (Saturdays)	20



Hands on training in “Bioinformatics and Bioanalytical techniques”(Ongoing)



Workshop at GMERF ON “Conventional and RT PCR” 12th -14th December,2023



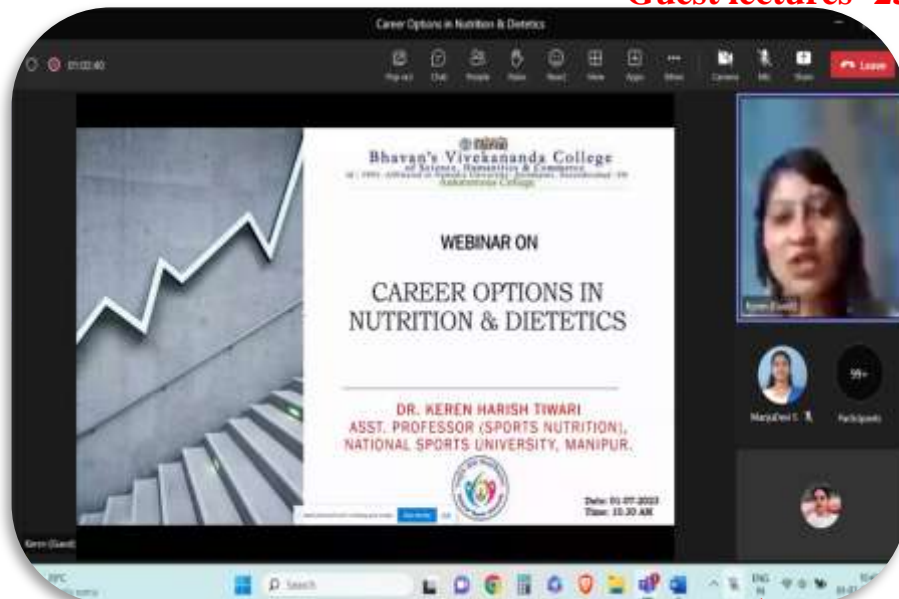
Invited Lectures - 4 (2023-24)

S. No	Name	Designation/Host institute	Duration of visit	Topic of lecture	Date	No of beneficiary/course
1	Dr. Keren Harish Tiwari	Assistant Professor (Sports nutrition), National Sports University, MYAS-GoI, Imphal, Manipur	Online	Career options in nutrition & dietetics”	1-7-2023	140
2	Dr. Viswanadham D	Vice-President and Head, Life Sciences Incubation IKP Knowledge Park, Shamirpet, Telangana.	Half day	Career opportunities in Biochemistry and allied sciences	20-7-2023	46
3	Ms. A.N. Malleswari	Chief Dietician, Star Hospital, Nanakramguda, Hyderabad	Half day	“Healthy Diet Gawning Habit for Life”	21-09-2023	101
4	Dr. Murali Dharan Bashyam	Staff Scientist and Chief, Laboratory of Molecular Oncology, Centre for DNA Fingerprinting and Diagnostics (CDFD), Hyderabad	Half day	Challenging the colorectal cancer Dogma: novel discoveries from two decades of research on Indian patients"	19-12-23	70

POPULAR LECTURES (Interdepartmental)-3

S. No	Theme of the Programme	Date of the Event	No of Beneficiaries
1	Prof. C. Anjali Devi, Former head, Dept. of Food & Nutrition, O.U. Hyderabad delivered a keynote address on “ Fuel for future-How ”? during Rashtriya Poshan Maah Celebrations	21-09-2023	101
2	Awareness lecture on the occasion of Breast Feeding week by Dr. Latha Sashi, Chief Nutritionist and Head, Department of Clinical Nutrition & Dietetics, Fernandez Hospital, Hyderabad on theme “ Let’s Make Breastfeeding and work, work ”	18-08-23	76
3	Dr. G. Bhanuprakash Reddy, Scientist, NIN, Hyderabad delivered lecture on “ Novel Bioactive Compounds for Diabetes complications ”	20-11-23	236

Guest lectures- 23-24



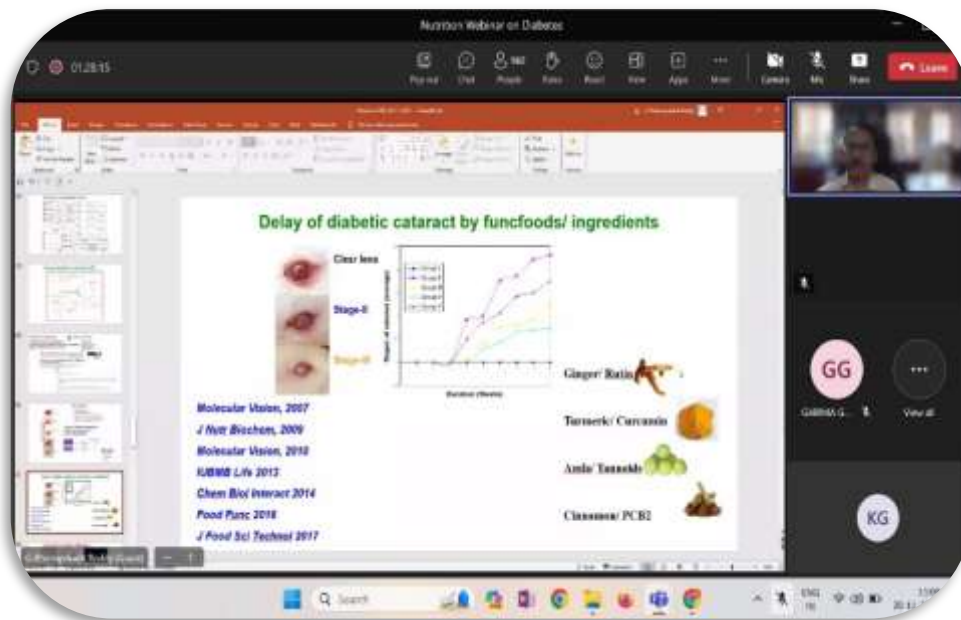
Dr. Keren Harish Tiwari delivering lecture 1st July,2023



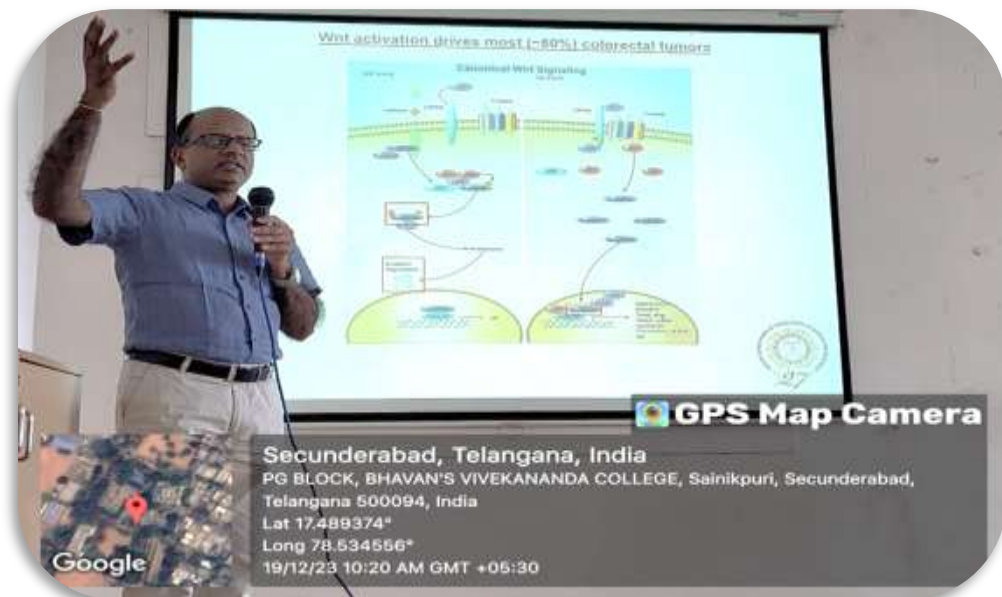
Dr.Viswanadham D, VicePresident and Head, Life Sciences Incubation IKP Knowledge Park, Shamirpet, Telangana on 20th July,2023



Guest Lecture by Ms. A.N. Malleswari



Dr. G.Bhanuprakash Reddy, Scientist, NIN, delivered an online guest lecture- 20th November, 2023



Dr. Murali Dharan Bashyam, CDFD, delivering lecture-19th December, 2023

Popular lecturers



Awareness lecture on Breast Feeding by Dr.Latha Sashi



Prof. C. Anjali Devi, Retd Prof.OU delivering key note address at Rashtriya Poshan Maah Celebrations-2023

OUTREACH PROGRAM



Outreach program for School students-18th Nov,2023

New Experiments introduced in the academic year 2023-24

1. Preparation of culture media and sterilization.
2. Isolation of pure cultures
3. Isolation and identification of lecithin from egg yolk
4. Estimation of SGOT, SGPT and ALP
5. Visualization of antigen - antibody reaction by immuno diffusion method
6. Determination of TSH by ELISA
7. Determination of Ag-Ab specificity by Dot- blot method
8. Preparation of natural pH indicators
9. Separation of lipids using TLC in processed foods

Salient achievements of the Department

- Technical skills of students are improved by organising value added course and training programmes.
- Research aptitude was inculcated by providing short term research projects.
- Encouraged students to present posters in national and international seminars/conferences.
- Improving technical skills of faculty by attending various workshops/FDP/Training programmes.
- Providing exposure for students to educational institutions/ industries through visits.

Student Achievements

(2022-2023 & 2023-2024)

**No. of
Publications**

2

**No. of students
won prizes in
conferences &
scientific events**

22

**No. of students
Presented posters
/papers in national
& International
conferences**

34

**Faculty Achievements
(2022-2023 & 2023-2024)**

**No. of
Publications**

10

**No. of faculty won
Best Teacher
Award**

1

**No. of faculty
won prizes in
National &
International
seminars/
conferences**

5