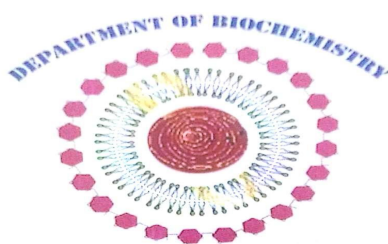


(Affiliated to Telangana University)



DEPARTMENT OF BIOCHEMISTRY

(SELFFINANCE COURSE)



Department Profile

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INTRODUCTION

DEPARTMENT OF BIOCHEMISTRY (SELF FINANCE COURSE)

Department of **BIOCHEMISTRY** was established in 2005-06 academic year with the serious effort of R. Nethaji, HOD of chemistry. It is providing the best services in the district for needs of the under graduate biochemistry students. Departmental library is maintained regularly for the benefits of students. Regular field trips are arranged by the department to bring awareness among the students about the applications of biochemistry. The best technical & laboratory knowledge to work in various diagnostic centres has been provided to the students. Department has been providing career guidance regularly.

COURSES OFFERED

B.Sc BIOCHEMISTRY course is offered along with the combination of **ZOOLOGY & CHEMISTRY** in English medium. The sanctioned strength is 54. It is a self financed course. From the academic year 2018-19, we introduced combination of **BOTANY & CHEMISTRY** in English medium. In CBCS pattern, now the Biochemistry students can choose any two optional subjects from Botany, Zoology, Microbiology, Biotechnology and Chemistry.

FEE PERTICULARS:-

Rs. 4053/- is charged as tuition fee per year.

SYLLABUS;

Since ours is an autonomous college, the syllabus is designed by chairman and members of **BOARD OF STUDIES (BOS)**, Department of biochemistry, Girraj Government Degree College (A). The course has eight theory and four practical papers in semester wise pattern i.e I,II,III,IV,V,VI . From the academic year 2014-15 **CBC SYSTEM** has been introduced for the I year students (I & II semesters) , from 2015-16 for II year and from 2016-17 for III year the **CBCS** was introduced .from 2016-17 onwards semester wise practical examinations are conducted.

ADMISSION PROCEDURE;

Students were admitted through counselling procedure based on their merit till 2015-16 academic years. From 2016-17 academic onwards admissions are made through online system as per the commission of collegiate education guide license.

**THE SUCCESSION LIST OF THE INCHARGES OF THE BIOCHEMISTRY
DEPARTMENT**

1.	R. Netaji	2005-2007
2.	K.Sharath Babu	2007-2008
3.	P.Brahmiah	2008-2010
4.	T.Surendher	2010-2011
5.	D.Umapathi	2011-2012
6.	T.Jithendra	2012-2013
7.	Dr.M.A.Rafeeq	2013-2014
8.	D.Umapathi	2014-2016
9.	Dr.M.A.Rafeeq	2016-2018
10.	Mohd.TOUSIF AHMED	2018-2021
11.	Dr. B. Satheesh Kumar	2021-

DETAILS OF TEACHING STAFF

#	Name of the lecturer	Subject specialization	Qualification	Regular/ Part-time	Date of appointment	Date of joining in the college
1	Dr. B. Satheesh Kumar	Biochemistry	M.Sc. Ph.D.	Regular HOD of BIOCHEMISTRY	26.12.2011	27.03.2021
2	R.HARISON	Biochemistry	M.SC	Guest faculty	01-07-2015	01-07-2015

PERSONAL PROFILE

SUBJECT ; BIOCHEMISTRY

1. NAME : Dr. B. Satheesh Kumar
2. FATHER'S NAME : Rama Swamy
3. DESIGNATION : Assistant professor
4. DATE OF BIRTH : 08.04.1982
5. QUALIFICATION : M. Sc. Ph.D.
6. TEACHING EXPERIENCE : 9 Years

Faculty recharging strategies

S.No	Training/course	Place/Institute	Duration
1.	Orientation course	Academic staff college, University of Hyderabad, Hyderabad	9-1-2014 to 5-2-2014.
2.	Refresher course on "Soft skill for professional excellence"	Academic staff college, JNTUH, Hyd	7-7-14 to 26-7-14
3.	Refresher course on "Life sciences"	MANUU, Hyderabad	17-09-21 to 30-09-21
4.	Orientation workshop on content development, OER, MOOCS & MOODLE.	NITW, Warangal	19-11-2018 to 24-11-2018

Publications:

❖ Number of papers published in peer reviewed journals (national/ International)

1. B. SATHEESH KUMAR, J. SATHYANARAYANA, M. ESTARI, M. KRISHNA REDDY AND M.S.K. PRASAD, Effect of alkaloids of *Achyranthes aspera* Linn. On fertility in male albino rats (*Rattus norvegicus*), *The Asian Journal Of Animal Science*, 2010, vol. 5 issue 2: 126-130.
2. B. SATHEESH KUMAR, M. KRISHNA REDDY, M. S. K. PRASAD, A.V. N. APPA RAO, Evaluation of antiprogestin activity of a progesterone analog 14 β -hydroxy progesterone in albino rats (*Rattus norvegicus albinus*), *Asian Journal of Bio Science*, 2009, Vol. 4 Issue 2 : 162-165.
3. B. Satheesh Kumar, J. Sathyanarayana, M. Krishna Reddy, M.S.K. Prasad, EVALUATION OF HEPATOPROTECTIVE ACTIVITY OF AQUEOUS EXTRACT FROM LEAVES OF SOLANUM AMERICANUM, *International Journal of Plant, Animal and Environmental Sciences*, 2011, Vol. 1 Issue 2 : 150-154.
4. B. Satheesh Kumar, K. Madhukar Rao, K. Madhusudhan, M. Krishna Reddy, MSK Prasad, ISOLATION AND EVALUATION OF ANTIFERTILITY ACTIVITY OF TOTAL ALKALOIDS FROM LEAVES OF AEGLE MARMELOS IN MALE ALBINO RATS (*RATTUS NORVEGICUS*), *International Journal of Applied Biology and Pharmaceutical Technology*, 2011, Vol. 2 Issue 3 : 178-183.
5. Madhukar Rao Kudle, B.Satheesh Kumar, M.S.K Prasad, ISOLATION AND PURIFICATION OF RIBOFLAVIN BINDING PROTEIN FROM EAGLE EGG-YOLK (*AQUILA HASTATE*), *International Journal of Applied Biology and Pharmaceutical Technology*, 2012, Vol. 3 Issue 1 : 351-354.
6. Madhkar Rao Kudle, Satheesh Kumar Boddu, Prasad MSK, PURIFICATION AND CHARACTERIZATION OF RIBOFLAVIN BINDING PROTEIN FROM THE EGG WHITE OF EAGLE (*AQUILA HASTATE*), *International Journal of Pharmaceutical Sciences and Research*, 2012, Vol. 3 Issue 2 : 494-496.
7. K. Madhukar Rao, B. Satheesh Kumar, Bindhu Rajan and MSK Prasad, ISOLATION AND PURIFICATION OF RIBOFLAVIN BINDING PROTIEIN FROM COOT

PERSONAL PROFILE

SUBJECT ; BIOCHEMISTRY

1. NAME : R.HARISON
2. FATHER'S NAME : R.MANYA
3. DESIGNATION : lecturer
4. DATE OF BIRTH : 07-06-1989
5. QUALIFICATION :
 - P.G : M.Sc biochemistry
 - Ph.D :
6. ADDITIONAL QUALIFICATION : B.ED
7. TEACHING EXPERIENCE
 - a. JR.LECTURER
 - b. DEGREE LECTURER :2 YEARS
 - c. P.G LECTURER
8. WORKING PROFILE
 - a. PRESENTLY WORKING AS: lecturer in biochemistry
 - b. HEADS IN THE COLLEGE
 - c. BOARD MEMBER IN THE COLLEGE
9. POSITION/ACTIVITIES IN THE COLLEGE :
 - i.
 - ii.
10. CONFERENCE / SEMINAR ATTENDED :
 - i. attended 2 national seminar in girraj government college from dept of zoology
 - ii. Seminar on CHEMISTRY THE CENTRAL SCIENCE
 - iii. Science lectures workshop on CURRENT TRENDS IN APPLIED BIOLOGY
11. OTHER ACTIVITIES/ ACHIEVEMENTS:

INFRASTRUCTURAL FACILITIES

- ❖ LIST OF MAJOR EQUIPMENTS AVAILABLE IN THE DEPARTMENT
- ❖ LIST OF GLASSWARE AND PLASTIC WARES PRESENT IN THE DEPARTMENT
- ❖ LIST OF CHEMICALS PRESENT IN THE DEPARTMENT AL LAB

1	STAFF / dept room	01
2	Class rooms	03
3	Laboratories	01

LIST OF MAJOR EQUIPMENTS AVAILABLE IN THE DEPARTMENT

S.NO	NAME OF THE EQUIPMENT	YEAR OF PURCHASE	APP VALUE	CONDITION WORKING /NON
1	Spectro photometer	2006	30225/-	Working
2	Autoclave	2008	28000/-	Not working
3	Ph meter	2006	6500/-	Working
4	Analytical balance	2009	2350/-	Working
5	Electrical water bath	2006	3675/-	Working
6	Magnetic stirrer	2005	2200/-	Working
7	Student microscope	2009	6500/-	Working
8	Heamo cytometer	2007	1910/-	Working
9	Hemo meter	2008	720/-	Working
10	Calorimeter	2007	6600/-	Under repair
11	Microwave oven	2005	6500/-	Working
12	Digital photocolori meter	2006	6500/-	Working
13	Compound microscope	2006	3480/-	Working
14	Electrophoresis kit	2007	8195/-	Working
15	Colorimeter	2017	6800/-	Working

LIST OF GLASSWARE AND PLASTIC WARES PRESENT IN THE DEPARTMENT

1. Beakers 25 to 1000ml
2. Reagent bottles 125ml
3. Conical flasks 25 to 250ml
4. Measuring jar 10ml to 500ml
5. Microslides
6. Test tubes
7. Burettes
8. Dropping bottles
9. Standard flasks 25 to 250ml
10. Test tube holders
11. Watch glasses
12. Chromatography chamber
13. Cuvettes
14. Haemoglobin Sahli's meter
15. Test tube stands

LIST OF CHEMICALS PRESENT IN THE DEPARTMENTAL LAB

1. Acetic acid glacial
2. Acetone
3. Ammonium acetate
4. Ammonium buffer solution 25% and 30%
5. Benedict reagent
6. Bromine
7. Bromocresol green (ph indicator)
8. Buffer tablets 4,7,9
9. Chloroform
10. 2,4-dinitro phenyl hydrazine
11. Ferric chloride
12. Hydrochloric acid
13. Iodine
14. Lead acetate
15. Methanol
16. Nitric acid
17. Sulphuric acid
18. Phenyl hydrazine
19. Potassium hydroxide pellets
20. Sodium nitropruside
21. Glycine
22. Sodium hydroxide pellets
23. Tyrosine
24. L-tryptophan
25. L-cystine

26. Arginine
27. Glucose
28. D-fructose
29. Sucrose
30. D-maltose
31. Sodium acetate
32. Mercuric sulphate
33. Ninhydrin solution
34. Molisch reagent
35. Selwinoffs reagent
36. Bials reagent
37. Fehlings reagent
38. Barfoeds reagent.
39. Alpha naphthol
40. Cholesterol
41. Urea
42. Creatinine
43. DNS
44. DPA
45. ALBUMIN
46. Citric acid
47. Agarose
48. Agar
49. Whatmann filter paper
50. Benedict reagent (qualitative & quantitative)
51. Resorcinol
52. DNA
53. RNA

TOPPERS OF THE ACADEMIC YEARS

S.NO	NAME	ROOL.NO	YEAR	MARKS%
1	S.NARESH	32-07-2817	2009	76.06%
2	CH.JYOTHI	32-08-2805	2010	79.03%
3	P.SRIJA	32-09-2842	2011	76.39%
4	FARHANA NAZREEN	5005-09-470-018	2012	82.83%
5	S.ANVESH	5005-10-470-041	2013	84.89%
6	AFSHAFIRDOSE	5005-11-470-001	2014	87.78%
7	T.PREETHI	5005-12-470-046	2015	88.89%
8	G.AJAY KUMAR	5005-13-470-020	2016	90.66%
9	K.SRILATHA	5005-14-470-013	2017	85.00%
10	K.SANDYA	5005-15-470-001	2018	93.00%

HIGHLIGHTS OF THE DEPARTMENT

S.NO	NAME	ROOL.NO	ACHEIVEMENTS	YEAR
1	B.ANUHYA	32-08-2802	M.sc biotechnology (nanded)	2011
2	U.DEEPIKA	32-08-2804	m.sc chemistry	2011
3	D.ANIL KUMAR	32-08-2820	m.sc molecular biology (HCU)	2011
4	M.DILIP KUMAR	32-08-2827	m.sc chemistry (NIZAM)	2011
5	SAI KUMAR	32-08-2840	m.sc chemistry (ou)	2012
6	M.D.ZAHEER	5005-09-470-034	SELECTED BY INFOSIS IN COMPUS INTERVIEW	2012
7	S.ANVESH	5005-10-470-041	M.SC BIOCHEMISTRY(BHAVANS)	2013
8	DIVAKAR	5005-10-470-005	M.SC BIOCHEMISTRY(BHAVANS)	2013
9	SANITH KUMAR	5005-10-470-013	Selected by REDDYS LAB in COMPUS INTERVIEW	2014
10	AFSHAN	5005-10-470-001	M.SC BIOCHEMISTRY (shadhan college)	2014
11	P.LAXMAN	5005-12-470-037	M.SC CHEMISTRY (OU)	2015
12	CH.ASHWINI	5005-12-470-010	M.SC BIOTECHNOLOGY(TU)	2015
13	A.ABHINANDHAN	5005-12-470-001	M.SC BIOTECHNOLOGY (OU)	2015
14	N.SHIVAKUMAR	5005-12-470-040	M.SC CHEMISTRY (OU)	2015
15	A.VAISHALI	5005-13-470-001	M.SC ZOOLOGY (OU)	2016
16	G.AJAY	5005-13-470-020	M.SC CHEMISTRY (OU)	2017
17	S.SURESH	5005-13-470-045	M.SC CHEMISTRY (OU)	2016
18	B.ARUN	5005-13-470-003	M.SC CHEMISTRY (OU)	2016
19	M.KAVITHA	5005-14-470-015	M.SC ZOOLOGY (GGC)	2017

ACTION PLAN

- ❖ In addition to normal teaching power point presentation are given for I, II, & III year students.
- ❖ To conduct extension lecturers.
- ❖ To organise study projects by students.
- ❖ To conduct remedial classes for poor students.
- ❖ To conduct quiz competition for biochemistry students.
- ❖ To conduct student seminar.
- ❖ To organize clinical lab visits.
- ❖ To give assignments for all year students.

ORIENTATION CLASSES FOR 1st YEAR STUDENTS:

Orientation classes have been conducted for B.Sc first year students by senior faculty of the department to create Awareness about the following aspects:

- Role of students in the class and college
- Academic and departmental activities in the college
- Different facilities available in the college
- Involvement of co-curricular and extracurricular activities.
- Usage of laboratory facilities
- Usage of library facilities.
- Importance of skill development course.



ORIENTATION CLASS FOR 1ST YEAR STUDENTS

REMEDIAL CLASSES FOR SLOW LEARNERS:

Remedial Classes have been conducted for slow learners in addition to the regular classes along with required study material in different semester exams based on the results.



REMEDIAL CLASS FOR SLOW LEARNERS

ASSIGNMENTS:

Assignments are given for all students on biochemistry related topics.

SEMINARS:

Seminars have been conducted regularly for different section separately to improve their communication skills and subject knowledge. Students were given a part of running topic in advance for preparation and allowed to teach using black board.



STUDENT SEMINAR



SEMINARS

QUIZ COMPETITION:

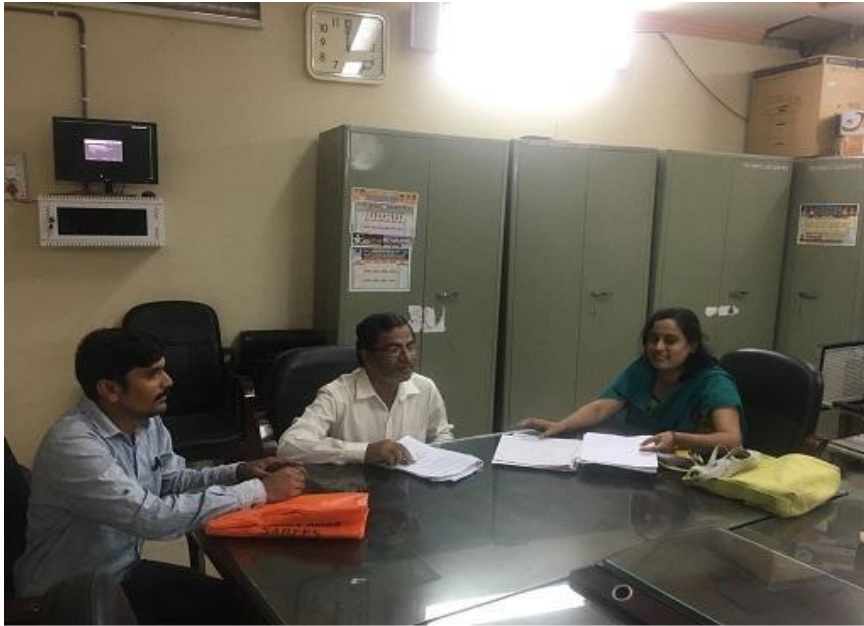
Department level quiz competitions were conducted by faculty for students, to improve their subject level skills.



CURRICULAR ASPECTS

DEPARTMENTAL MEETINGS:-

The departmental meetings conducted regularly at departmental level with the staff members to discuss various issues related to academic, curricular, and co-curricular aspects.



DEPARTMENTAL MEETING

BOARD OF STUDIES MEETINGS:

Board of meetings are held in the department regularly to discuss activities related to

- Updating or modification of syllabus

ADD-ON COURSE/ SKILL DEVELOPMENT COURSE:

Department providing skill development course to improve students skills for employment AND certificate course, value added courses were provided by department for personal skill development of students.

Course: MEDICAL LAB TECHNITIAN course.

CERTIFICATE COURSE S:

- ICE cream stick crafts : Resorce person – N.SANDHYA RANI
Under guidance of --K.LAVANYA (LECTURER IN BIOCHEMISTRY)

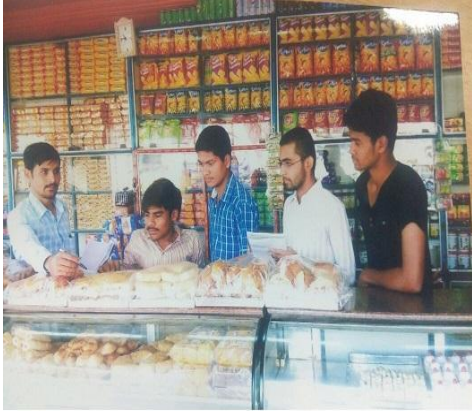


icecream stick crafts-certificate course



ICE CREAM STICK CRAFTS CLASS

- BACKED SNACK ITEMS : Resorce person – PRADEEP PATEL
Under guidance of --R. HARISON (LECTURER IN BIOCHEMISTRY)



PREPARATION OF BAKED SNACK ITEMS-CERTIFICATE COURSE



PREPARATION OF BAKED SNACK ITEMS

VALUE ADDED COURSE: DIET COURSE

EXTRA CURRICULAR ACTIVITIES: Extracurricular activities are conducted by students at outside of the college.



HEALTH AWARENESS



BLOOD GROUP ANALYSIS



SWACHH SURVEKSHA 2018



HARITHA HAARAM



SWACHH BHARATH



HEAMOGLOBIN COUNT

TEACHING LEARNING AND EVALUATION ACTIVITIES

EXTENSION LECTURES

The department is organising guest / extension lectures regularly by inviting professors from other institutions to degree students.

❖ EXTENSION LECTURERS : 2007-2008

Two extension lecturers were organized on 12-09-2007 by the department of biochemistry.

1. **Name of the resource person** : prof.shashidhar rao, department of biochemistry ,
ou, hyb.

Name of the topic : "IMMUNOTECHNOLGY"

2. **Name of the resource person** : Prof. Dr. Maruthi Mohan, , department of
b Biochemistry ou, hyb.

Name of the topic : **“INDUSTRIAL UTILIZATION OF BIOCHEMICAL ASPECTS”**

❖ **EXTENSION LECTURERS: 2010-2011**

An extension lecturer Was organized on 28-12-2011 by the department of biochemistry.

Name of the resource person : N.J.Mary , reader in biochemistry ,MIDS, nizamabad.

Name of the topic : **“ ENZYMES AND THEIR ACTIVITY “**

❖ **EXTENSION LECTURERS: 2013-2014**

An extension lecturer Was organized on 12-09-2013 by the department of biochemistry.

Name of the resource person : Akbar pasha ,Lecturer in microbiology, GGC,NZB

Name of the topic : **“DNA REPLICATION “**

❖ **EXTENSION LECTURERS : 2015-2016**

An extension lecturer Was organized on 18-12-2015 by the department of biochemistry.

Name of the resource person : N.J.Mary , reader in biochemistry ,MIDS, nizamabad.

Name of the topic : **“ CLASSIFICATION OF ENZYMES “**

❖ **EXTENSION LECTURES :2016-2017**

An extension lecturer Was organized on 20-02-2016 by the department of biochemistry.

Name of the resource person : N.J.Mary , reader in biochemistry ,MIDS, nizamabad.

Name of the topic : **“ INTRODUCTION OF IMMUNOLOGY “**

❖ **EXTENSION LECTURES: 2017-2018**

An extension lecturer Was organized on 10-11-2017 by the department of biochemistry.

Name of the resource person : N.J.Mary , reader in biochemistry ,MIDS, nizamabad.

Name of the topic : “ CLASS-IFICATION OF AMINOACID AND PROTEINS “



EXTENSION LECTURE

INDUSTRIAL VISITS

Industrial visits are arranged for the students to improve their knowledge about usage and activity of chemicals in different ways in industries and laboratories.

1. Industrial visit to “ **CCMB (CENTRE FOR CELLULAR AND MOLECULAR BIOLOGY)**” , HYDERABAD.
For **II & III** YEAR Students on 26-09-2007.
2. Industrial visit to “**SUKHJITH STARCH MILLS**” NIZAMABAD.
For **III** year students on 26-12-2011.

3. Industrial visit to **“SUKHJITH STARCH MILLS”** NIZAMABAD.
For III year students on 30-01-2015.

4. Industrial visit to **“SUKHJITH STARCH MILLS”** NIZAMABAD.
For III year students on 18-01-2017



INDUSTRIAL VISIT-SUKHJITH FACTORY

5. Lab VISIT TO **“ GOVERNMENT MEDICAL HOSPITAL”** NIZAMABAD.
For III year students on 19-01-2018



LAB VISIT-GOVERNMENT HOSPITAL



LAB VISIT-GOVERNMENT HOSPITAL



LAB VISIT-GOVERNMENT HOSPITAL



LAB VISIT-GOVERNMENT HOSPITAL

STUDENTS STUDY PROJECTS

Study projects have been conducted with the participation of students under the guidance of lecturers, to improve their practical knowledge in laboratory.

1. Blood group analysis : YEAR 2011-2012

For S.S.C students conducted at govt.high school, dubba, nizambad.

s.no	NAME	ROLL.NO	YEAR
1	H.RUKMAJI	5005-09-470-022	III YEAR
2	Md.ZAHEER	5005-09-470-034	III YEAR
3	SYED.IRSHAD	5005-09-470-046	III YEAR
4	S.KIRAN KUMAR	5005-09-470-042	III YEAR

NAME OF THE SUPERVISOR

M.PRASAD , Lecturer in bio-chemistry.

2. VITAMINS AND THEIR ROLE IN NUTRITION : YEAR 2011-2012

survey conducted at vidhyanagar & rajinagar nizamabad.

s.no	NAME	ROLL.NO	YEAR
1	D.SAIKUMAR	5005-09-470-017	III YEAR
2	T.RAJITHA	5005-09-470-051	III YEAR
3	B.PRASHANTHI	5005-09-470-010	III YEAR
4	B.GOUTHAMI	5005-09-470-005	III YEAR

NAME OF THE SUPERVISOR

B.SRILAXMI , Lecturer in bio-chemistry

3. BLOOD GROUP ANALYSIS : 12-09-2014

Students participated : III YEAR

s.no	Name	Roll.no
1	A.ABHINANDHAN	5005-12-470-001
2	Ch.ASHWINI	5005-12-470-010
3	N.SHIVA KUMAR	5005-12-470-035
4	P.LAXMAN	5005-12-470-040

Under guidance of : K.LAVANYA, Lecturer in bio-chemistry.

**4. QUICK TEST FOR ADULTERATION IN SWEETENING AGENTS :
29-01-2016**

For SSC students, Geethanjali high school,shubhashnagar,nizamabad.

Students participated: I st year

S.NO	NAME OF THE STUDENTS	ROLL.NO
1	K. SANDHYA	5005-15-470-001
2	Ch.SRAVANTHI	5005-15-470-003
3	A.TEJASWINI JOSHI	5005-15-470-041
4	K.DINESH	5005-15-470-035

Under guidance of: R.HARISON, Lecturer in bio-chemistry.

5. QUICK TEST FOR COLOURING ADULTERANTS IN FOOD 29-01-2016

Students participated : III YEAR

S.NO	NAME OF THE STUDENTS	ROLL.NO
1	S.SURESH	5005-13-470-045
2	A.VAISHALI	5005-13-470-001
3	G.AJAY	5005-13-470-020
4	G.SARITHA	5005-13-470-021

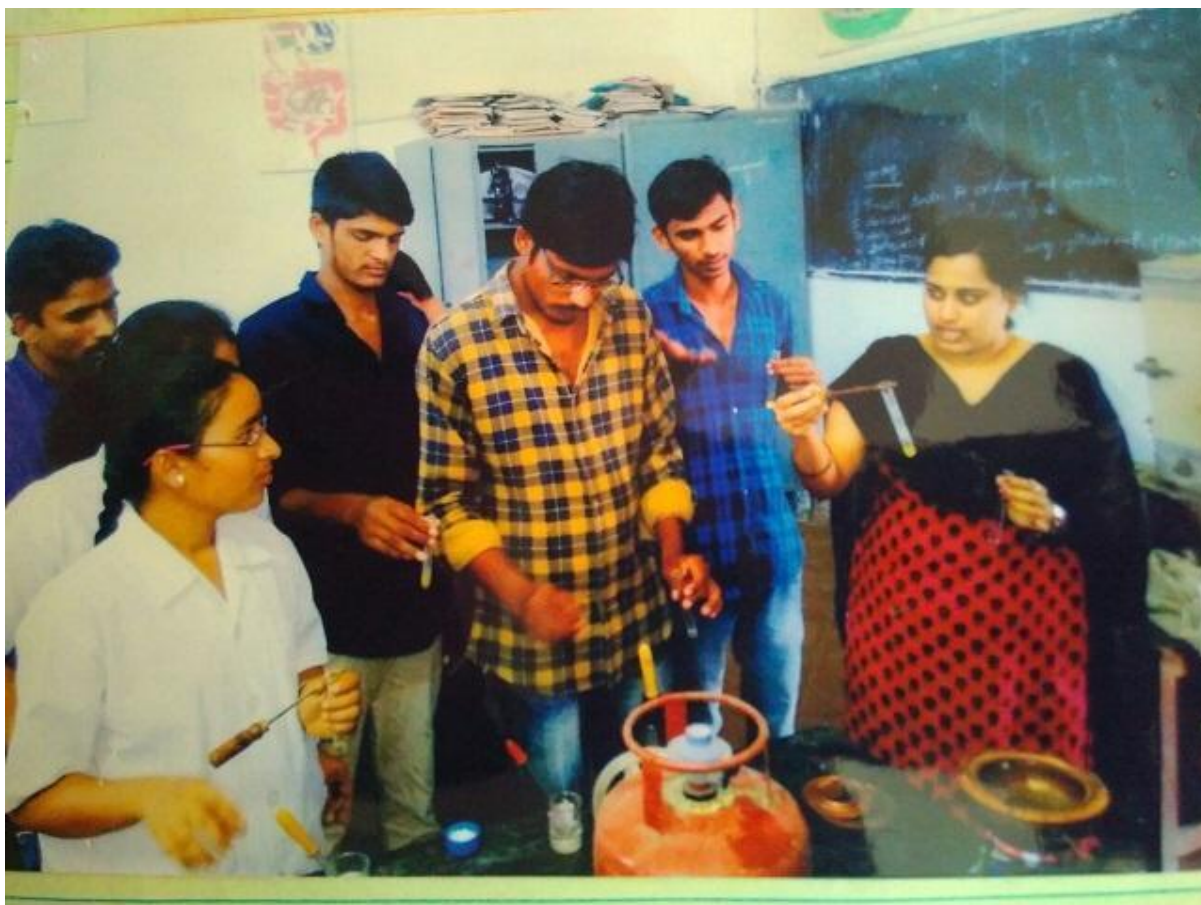
Under guidance of: K.LAVANYA, Lecturer in bio-chemistry.

6. ANALYSIS OF NORMAL AND ABNORMAL CONSTITUENTS OF URINE
05-12-2016

Students participated : III YEAR

S.NO	NAME OF THE STUDENTS	ROLL.NO
1	K.SRILATHA	5005-14-470-013
2	T.VAMSHIRAJ	5005-14-470-025
3	M.KAVITHA	5005-14-470-015
4	D.SRINIVAS	5005-14-470-007
5	A.SWETHA	5005-14-470-003

Under guidance of : K.LAVANYA, Lecturer in bio-chemistry.



URINE ANALYSIS-STUDY PROJECT

7. DETECTION OF HEAMOGLOBIN BY SAHILI'S METHOD 05-12-2016

Students participated : I ST YEAR

S.NO	NAME OF THE STUDENTS	ROLL.NO
1	K.VENNELA	1605-5005-470-017
2	M.RADHIKA	1605-5005-470-019
3	S.MADHAV RAO	1605-5005-470-024
4	S.AKASH	1605-5005-470-027
5	Ch.ARCHANA	1605-5005-470-008

Under guidance of : R.HARISON, Lecturer in bio-chemistry.



HAEMOGLOBIN ESTIMATION BY SAHILI'S METHOD-STUDY PROJECT

8. FOOD ADULTERANTS IN MILK 27-01-2018

Students participated : III rd YEAR

For SSC students of Geethanjali high school,shubhashnagar,nizamabad.

S.NO	NAME OF THE STUDENTS	ROLL.NO
1	Tejaswi	5005-15-470-048
2	K.Dinesh	5005-15-470-035
3	Ch.SRAVANTHI	5005-15-470-003
4	A.TEJASWINI JOSHI	5005-15-470-041

Under guidance of: K.LAVANYA, Lecturer in bio-chemistry.



DETECTION OF MILK ADDULTERANTS

9. DETECTION OF FOOD ADULTERANTS OF COLOURING AGENTS IN VARIOUS FOODS.

Students participated : III YEAR

For IX CLASS students of Geethanjali high school,shubhashnagar,nizamabad.

S.NO	NAME OF THE STUDENTS	ROLL.NO
1	KIRAN	5005-15-470-00
2	M. Veena Rani	5005-15-470-002
3	Tejaswi	5005-15-470-048
4	K.Dinesh	5005-15-470-035

Under guidance of: R.HARISON, Lecturer in bio-chemistry.

DEPARTMENTAL LIBRARY

The department has very effective library facility with 60books, for improving academic knowledge of the faculty

Some of them are:

Principles of biochemistry by lehninger.

Principles of biochemistry by white handler.

Biochemistry by Mathews , vanholde.

Biochemistry by voet & voet.

Medical biochemistry by chatterje.

Molecular biology of gene by Watson & baker.

Microbiology by Prescott.
Microbiology by pelczar.
Bioinformatics by P.S.V. murthy.
Biophysical chemistry by Himalaya publications
Microbiology by tata MC graw-hill
Cytology genetics & evaluation by rastogi publications
Genetics analysis by kalyani publications
Practical biochemistry – Cambridge university
Elementary biochemistry –S.Chand & company
Essential immunology- black well publishing
Bioinformatics-himalaya publications
Microbiology - MC graw-hill
Immunology & microbiology – saras publications
Lipid biochemistry-black well publications
Enzymes-prevor palmar
Molecular biology of the gene – pearson education
Immunology – tizard
Biochemistry-stryer
Text book of medical biochemistry-jaypee brother
Lab manual in biochemistry-newage international

INNOVATIVE PRACTICES

ICT BASED TEACHING CLASSES

PPT presentation are prepared by using computer and internet facility. And presented through LED projector.

NAME OF THE LECTURER : B.PRANAY KUMAR

TOPIC : ORGANS AND CELLS OF IMMUNE SYSTEM.

DATE : 03-01-2012.

NAME OF THE LECTURER : B.SRILAXMI

TOPIC : NUCLEIC ACIDS

DATE : 03-01-2012.

NAME OF THE LECTURER : K.LAVANYA

TOPIC : GRAMS STAINING

DATE : 11-09-2014

CLASS : III YEAR

NAME OF THE LECTURER : K.LAVANYA

TOPIC : DISORDERS OF PURINE METABOLISM

DATE : 05-09-2015

CLASS : II YEAR

NAME OF THE LECTURER : R.HARISON

TOPIC : PROTEIN CLASSIFICATION

DATE : 23-09-2015

CLASS : I YEAR

NAME OF THE LECTURER : K.LAVANYA

TOPIC : TRANSCRIPTION

DATE : 11-12-2015

CLASS : III YEAR

NAME OF THE LECTURER : R.HARISON

TOPIC : FORMATION OF URINE

DATE : 27-01-2016

CLASS : III YEAR

NAME OF THE LECTURER : K.LAVANYA

TOPIC : DISORDERS OF PURINE METABOLISM

DATE : 20-12-2016

CLASS : II YEAR

NAME OF THE LECTURER : R.HARISON

TOPIC : REPLICATION OF DNA

DATE : 23-01-2016

CLASS : III YEAR

NAME OF THE LECTURER : K.LAVANYA

TOPIC : TRANSCRIPTION

DATE : 11-01-2017

CLASS : III YEAR

NAME OF THE LECTURER : R.HARISON

TOPIC : DNA STRUCTURE

DATE : 17-01-2017

CLASS : I YEAR

NAME OF THE LECTURER : K.LAVANYA

TOPIC : TRANSLATION

DATE : 17-08-2017

CLASS : III YEAR

NAME OF THE LECTURER : K.LAVANYA

TOPIC : ENZYME CLASSIFICATION

DATE : 29-08-2017

CLASS : II YEAR

NAME OF THE LECTURER : R.HARISON

TOPIC : FORMATION OF URINE

DATE : 12-09-2017

CLASS : III YEAR

NAME OF THE LECTURER : R.HARISON

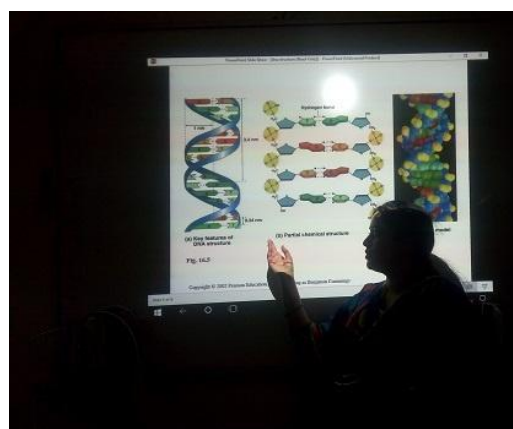
TOPIC : PROTEIN CLASSIFICATION

DATE : 19-09-2017

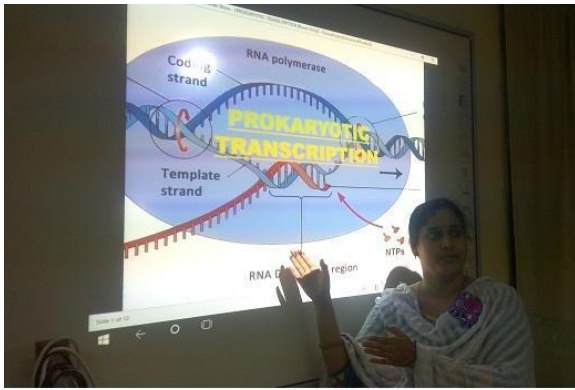
CLASS : I YEAR



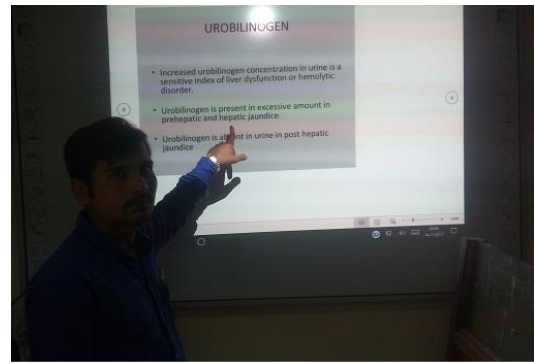
ENZYME CLASSIFICATION-ICT CLASS



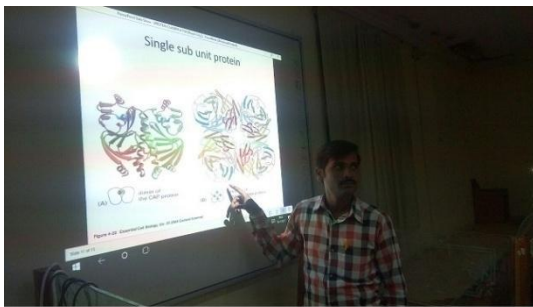
REPLICATION-ICT CLASS



PROKARYOTIC TRANSCRIPTION -ICT CLASS



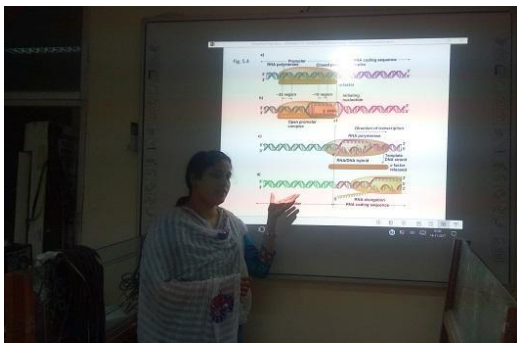
COMPONENTS OF URINE,FORMATION OF URINE-ICT CLASS



ICT CLASS PROTIEN CLASSIFICATION



ICT CLASS DISORDERS OF PURINE METABOLISM



TRANSLATION PROCESS-ICT CLASS



STRUCTURE OF DNA-ICT CLASS

ACADEMIC RESULT ANALYSIS OF STUDENTS

Academic year	PI			PII			PIII			PIV		
	App	Pass	%	App	Pass	%	App	Pass	%	App	Pass	%
2007-08	44	41	93.2	37	34	91.9	38	38	100	38	38	100
2008-09	37	33	89.2	42	42	100	36	36	100	36	36	100
2009-10	33	32	97	37	35	94.6	41	41	100	41	41	100
2010-11	39	37	94.9	32	32	100	36	35	97.2	37	36	97.3
2011-12	36	33	91.7	36	35	97.2	30	30	100	30	30	100
2012-13	43	37	86	29	17	58.6	36	35	97.2	36	34	94.4

2013-14	47	42	89.4	43	37	86	31	22	71	32	25	78.1
2014-15	19	17	89.9	51	48	94.1	42	40	95.2	42	41	97.6
2015-16	48	42	87.5	19	18	95	50	46	92	49	46	94
2016-17	30	28	93	45	42	93.33	19	15	78.94	17	16	94.11
2017-18	39	38	100	28	26	92.86	40	40	100	40	40	100
2018-19												
2019-20												

FUTURE PLAN

To introduce a certificate courses in bioinformatics

To include certain biochemical techniques related to spectrophotometry, centrifugation, pH meter.

To conduct workshops related on biochemical techniques and immunological techniques.

To introduce more skill development and certificate courses.

To introduce more study project related to industrial biochemistry.

To make more industrial and research lab visits for skill development of students.