

YADAVA COLLEGE

(AUTONOMOUS)

**GOVINDARAJAN CAMPUS, THIRUPPALAI, MADURAI-
625014**



DEPARTMENT OF BIOCHEMISTRY

DEPARTMENT PROFILE

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YADAVA COLLEGE

MADURAI -14

DEPARTMENT PROFILE

The Department of Biochemistry is committed to education and training UG students to acquire an in-depth knowledge of the fundamental principles of the subject Biochemistry. So, that he/she can apply this knowledge, for understanding the basis of health and disease.

Yadava College was started with an immense and motive to bring education to the footsteps of each and every downtrodden and poor people.

Biochemistry was established in the year 1996. During the academic year 2021 Total strength in the department are 78. The Boys: Girls ratio is 42:36 and the urban: rural ratio is 57:21.

The entire course of Biochemistry is based on under mentioned Syllabus, enables the learners to acquire basic knowledge in Biochemistry, which is applied in various fluids, existing and emerging from clinical biochemistry to Bioinformatics, sandwiching Biotech, it also imparts knowledge about medicinal plants and medicinal techniques, technology to isolate, analyze active compounds to produce, value added products from herbal plants.

FACULTY PROFILE

NAME OF THE FACULTY	QUALIFICATION	DESIGNATION	SPECIALIZATION	YEAR OF EXPERIENCE
G.KAVITHA	MSc., MPhil.,B.Ed	Head & Assistant professor	ClinicalBiochemistry, Molecular biology, Biotechniques, Bioinformatics.	15 years
Dr.S.KASTHURI RENGAMANI	MSc., M.Phil., Ph.D.,B.Ed.,PGDH S	Assistant Professor	Cell biology, Plant biochemistry, Medicinal Plants, Herbal Drug Technology.	16 years
K.KOTHAI SELVI	MSc.,s M.Phil., M.Ed.,DMLT.,DTP .	Lecturer	Microbiology, Immunology, Genetic Engineering, Nutrition and Dietetics, Biostatistics.	7 years

Dr.M.Velamma 1	MSc., M.Phil., Ph.D.	Head & Assistant professor	Organic chemistry, Industrial chemistry,	22 years
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STAFF AS A RESOURCE PERSON IN VARIOUS MEETING WITHIN AND OUTSIDE COLLEGE

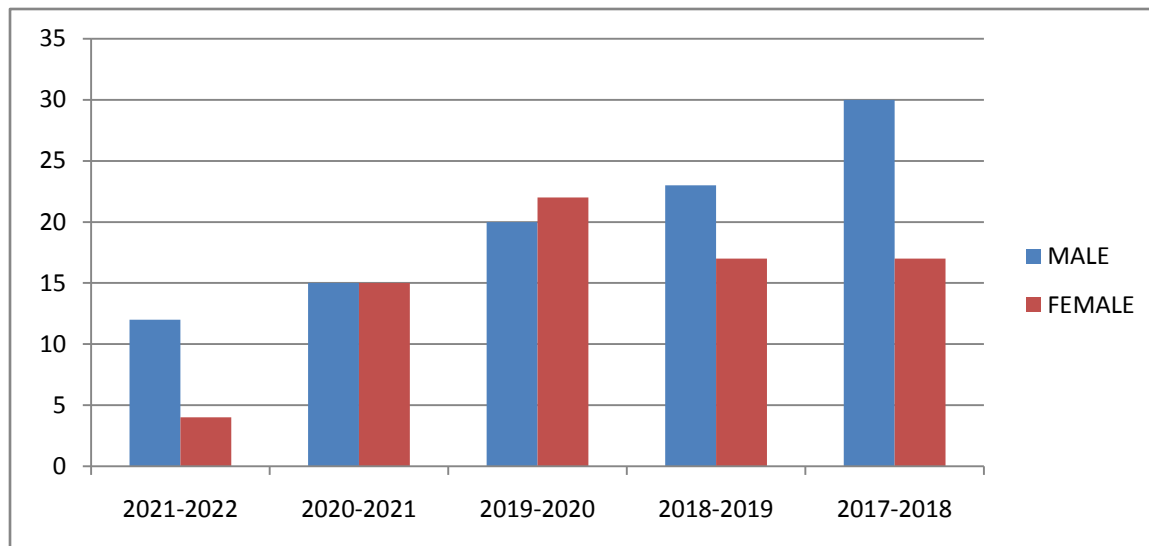
1. Mrs. G. Kavitha was appointed as an Question paper setter for UG and Chairperson in Pondicherry University for the year 2022
2. Mrs. K. Kothai Selvi served as chairperson of FAB's20 State Level Intercollegiate Students Seminar in Oral Presentation organized by the Department of Botany on 28-01-2020 Held at Thiagarajar college Madurai

TEACHING METHODOLOGY

Teaching Methodology includes Lecture cum Demonstration, Practical's, Group discussion, Assignment, Seminar, OHP presentation, Power Point Presentation, Chalk and Talk.

STUDENT PROFILE

ACADEMIC YEAR	NO. OF STUDENTS	MALE	FEMALE
2021-2022	16	12	4
2020-2021	30	15	15
2019-2020	42	20	22
2018-2019	40	23	17
2017-2018	47	30	17



ORIENTATION PROGRAMME FOR FRESHERS

Every academic year after the admission on the Day of Reopening the students and parents are given a warm welcome and an orientation programme is arranged for them.

BRIDGE COURSE

Every year bridge course is conducted as orientation programme for new courses.

PTA MEETING AND GREEN CARD SYSTEM

In the end of every semester parent and teacher meeting is conducted in our department. Green card system which helps the development of students is possible only were the parents are involved in the process of education.

STUDENT WELFARE PROGRAMME

Under performance counseling programme namely remedial activities aimed at helping the students with learning difficulties support the students to develop better learning skills via continuous assessment at the end of every semester the remedial courses are conducted

INSTURMENTS AVAILABLE FOR BIOCHEMISTRY STUDENTS

1. Digital Colorimeter
2. pH meter

3. Centrifuge
4. Micro centrifuge
5. Compound Microscope
6. Cyclo-mixer
7. Hot air oven
8. Paper chromatography chamber
9. Physical balance
10. Electronic balance
11. ESR stand
12. Hemocytometer
13. Blood pressure apparatus
14. Glucometer
15. Hemoglobinometer
16. Titreplate (hemagglutination)
17. Agarose gel Electrophoresis
18. SDS Page apparatus
19. Power pack
20. UV hand transilluminator

NUMBER OF BOOK IN DEPARTMENT LIBRARY

ACADEMIC YEAR	TOTAL NO. OF BOOKS
2021-2022	252
2020-2021	Due to pandemic situation internal stock verification was carried out
2019-2020	
2018-2019	255
2017-2018	256
2016-2017	256
2015-2016	256
2014-2015	256
2013-2014	256
2012-2013	256
2011-2012	246
2010-2011	229
2009-2010	229
2008-2009	210
2007-2008	180
2006-2007	174

RESEARCH ACTIVITES

S.NO	NAME OF THE STAFF	TITLE OF THE RESEARCH WORK	INSTITUTION	UNIVERSITY	AWARDED
1.	Dr.S.kasthuri rengamani	“influence of nitrogen, phosphorus and potassium nutrition on the uv-b (285-325nm) induced damage on growth and biochemical characteristics of few selected crop plants”	Ayya nadar janaki ammal college, sivakasi.	Madurai kamaraj university	July 2019
2.	Dr. M. Velammal	“studies on oxidation of dipeptides and nucleobases”	Thiagarajar college, madurai	Madurai kamaraj university	January 2021

PAPER PRESENTATION

S. no	NAME OF THE STAFF	STATE/NATIOANL/I NTER NATIONAL	CONFERENCE TITLES	TOPIC NAME	PLACE	DATE
1.	Dr.S.Kasthuri Rengamani	International	DBT Sponsored International Conference Reasserting Microbial Biotechnology to Deflate Global Disease Burden	“Supplementation of Phosphate fertilizer on growth yield and nutrient uptake in UV-B (285 – 325 nm) Stressed Vigna radiata L, Seedlings.	Biotechnology Department Manonmaniam Sundaranar University Tirunelveli.	28 th & 29 th Sep 2015

2	Dr.S.Kasthuri Rengamani	National	National Seminar on “Recent Scenario in Biotechnology concepts and Applications	“Effect of UV-B on Cluster Bean”	Botany Dept Sri Parasakthi College for Women Courtallam	24 th & 25 th July 2014
3.	Dr.M.Velammal	International Conference	Functional Materials (ICFM)		PG & Research Dept of Chemistry Thigarajar College Madurai	7 th &8 th Sep 2017
4.	Dr.M.Velammal	National Conference	Development in Inorganic Applications (INDIA – 2015)	Studies on the oxidation of Ehtanol by Peroxomonosulfate	Dept of Chemistry Periyar University Salem	15 th & 16 th Oct 2015

FACULTIES PARTICIPATE/ PRESENTED CONFERENCE/ WORKSHOP/ SEMINARS

S.NO	NAME OF THE STAFF	STATE/ NATIONAL	TITLE OF THE PROGRAMME	DEPARTMENT	INSTITUTION	DATE
1.	Dr.S.Kasthuri Rengamani	State Level	“Workshop on Advanced Techniques in Biotechnology”	Biochemistry	Sourashtra College Madurai.	30 th and 31 st Jan 2020
2.	Dr.S.Kasthuri Rengamani	State Level	“Workshop on basic principles of Biochemical Techniques and Microbiology”	Biochemistry	N.M.S.S.V.N. College, Madurai.	05.03.2020
3.	Dr.S.Kasthuri Rengamani	International Level	“Seminar on Emerging Trends in Biological Research”	Zoology	Fatima College, Madurai.	26.02.2019
4.	Dr.S.Kasthuri Rengamani	State Level	“Reforms in curriculum Design and evaluation based on OBE”	IQAC and Controller office	The standard Fireworks Rajarathinam College, Sivakasi	27.7.2019
5.	Dr.S.Kasthuri Rengamani	National Level	“Hands on Training Programme on Advanced Instrumentation in Plant Sciences”	Centre for Research and PG studies in Botany	Ayya Nadar Janaki Ammal College, Sivakasi.	6 th and 7 th March 2017

6.	Dr.S.Kasthuri Rengamani	State Level	Modern approaches in plant Biotechnology	Centre for Research and PG studies in Botany	Ayya Nadar Janaki Ammal College, Sivakasi.	10 th and 11 th February 2015
7.	K.KothaiSelvi	National level Workshop	Entrepreneurship&career Development for Life Science Graduates	Biochemistry	Government Arts college Paramakudi	24and25-March 2022
7.	K.KothaiSelvi	State level Workshop	Advanced Techniques in Biotechnology	Biochemistry	Sourashtra College Madurai	30 th & 31 st Jan 2020
8.	K.KothaiSelvi	National Seminar	Opportunities and Challenges in Life Science	Biochemistry	Sri Adichunchanagiri Women's College Theni	12 th Sept 2016
9.	K.KothaiSelvi	State level workshop	Clinical and Laboratory Practices	PG Biochemistry	V.V.Vannia Perumal College for Women Virudhunagar	25 th Feb 2015

WEBINAR

1. **Mrs.G.Kavitha** has participated in Ten days National level lecture series on the occasion of birth anniversary of late Shri Bhikulaun Nabira organized by PG department of the Chemistry in association with IQAC, Nabira mahavidyalaya katol from 21-01-2022 to 30-02-2022
2. **Mrs.G.Kavitha** has participated in DBT-Star college Scheme sponsored workshop on information and communication technology (ICT) for skill development Organized by Department of Botany Vivekananda college, Tiruvedakam, West Madurai on 28-01-2022
3. **Mrs.G.Kavitha** has participated in Online faculty development programme on presentation skills organized by IQAC Aringar anna Government Arts college, Nammakal TN on 07-08-2021
4. **Mrs.G.Kavitha** has participated in NAAC sponsored National webinar on The Impact of Covid-19 pandemic crisis on higher education institutions in Karnataka and its challenge on 20-07-2021
5. **Mrs.G.Kavitha** has participated in International E-conference on recent advances in chemical physical and Biological Sciences Organised by Department of chemistry Nabira mahavidyalaya katol and association of Chemistry Teachers (ACT) c/o Homi Bhabha centre for Science education (TIFR), Mumbai on 29-06-2021 to 30-06-2021
6. **Mrs.G.Kavitha** has participated in 4 weeks online “Entrepreneurship Development Programme on food & Dairy Processing”, Sponsored by Department of Science and Technology, Government of India Held at Mannar Thirumalai Naicker College, pasumalai Madurai from 29-01-2021 to 26-02-2021.

7. **Mrs.K.Kothai Selvi** has participated in “Environment day Quiz” conducted by Department of Science and Technology Government of India conducted on 05-06-2022
8. **Mrs.K.Kothai Selvi** has participated in five days International faculty development programme on nanomaterials organized by Department of physics St.Mary’s college on 23-11-2021 to 27-11-2021.
9. **Mrs.K.Kothai Selvi** has participated in National level lecture Series on Biotechnology and IPR organized by Thiagarajar College with National Centre of Excellence (MHRD) Department of Biotechnology & IQAC on 13-09-2021 to 18-09-2021
10. **Mrs.K.Kothai Selvi** has participated in international webinar on “Telomerase as therapeutic target in cardiovascular disease organized by Biosetup Life science” in collaboration with Institute of molecular and Translation Strategies (IMTTS), Hannover Medical School (MHH), Germany on 22-08-2021.
11. **Mrs.K.Kothai Selvi** has participated in National webinar on “Trend in Bio-Entrepreneurship organized by Department of Biochemistry The American college Madurai on 01-09-2021.
12. **Mrs.K.Kothai Selvi** has participated in International online faculty development program on Converting a F2F course to an effective online course” organized by the Department of Microbiology Rathnavel Subramanian college of Arts and Science on 07-08-2021
13. **Mrs.K.Kothai Selvi** has participated in national webinar on Genetic engineering of plants with photoreceptor gene to enhance the biomass and yield organized by PG and research Department of Botany Pachaiyappa’s College Chennai on 04-08-2021.
14. **Mrs.K.Kothai Selvi** has participated in international level webinar on “The secret of inner power” conducted by PG & Research Department of zoology, Government college for women kumbakonam on 19&20-07-2021.
15. **Mrs.K.Kothai Selvi** has participated in National webinar on Studies on Marine Biofouling and control Organized by the post graduate and Research Department of Zoology Vivekananda college tiruvedakam west on 20-07-2021.
16. **Mrs.K.Kothai Selvi** has participated in live international webinar on Recent Trends in Immunostimulants application in Aquaculture industry hosted by Department of Zoology sadakathullah appa college tirunelveli on 24-06-2021.
17. **Mrs.K.Kothai Selvi** has participated in 4 weeks online “Entrepreneurship Development Programme on food & Dairy Processing”, Sponsored by Department of Science and Technology, Government of India Held at Mannar Thirumalai Naicker College,pasumalai Madurai from 29-01-2021 to 26-02-2021

DEPARTMENT ORGANIZED PROGRAMME

S.NO	SEMINAR TITLE	RESOURCE PERSON	VENUE	TIME	DATE
1	Job Opportunities & Entrepreneurship for life science Graduates	Mr. P.Sivakumar	Math's Smart Class room	2:30 pm	06.05.2022
1.	Future Prospects in Biochemistry	Mr.L.Arul Yesudoss	Smart Class room	10.30 am	11.03.2020
2.	Recent Trends in Biochemistry	Dr.K.Lingakumar	Seminar Hall	11.00 am	04.02.2019

EXTENSION ACTIVITY

S.NO	NAME OF THE PROGRAMME	PARTICIPANTS	PLACE	RESOURCE PERSON	TIME	DATE
1.	Free medical consultancy programme for villagers	53villagers	Alathur village, Madurai	Dr. T.Jones M.D.S JL Dental clinic –Iyer bungalow, Madurai	10:30 am	16-05-2022
2.	“Natural cures”	85 Self Help group Women	Koozhappandi Village, Madurai	Mrs. R. Alagu Rajalakshmi, President, Kodimangalam Panchayat, Madurai.	11AM	26.2.2021
3.	“Traditional adolescence”	110 School Students	Oomatchikulam Govt High School, Madurai	Dr. J. Jeya Venkatesh, Kokila Hospital and Herbal	2.30P M	20.2.2019

				Research Centre, Madurai.		
	“Blood group analysis for school students”	78 School Students	Sri Ram Nallamani Yadava Girls Higher Secondary. School, Thiruppalai, Madurai	Mrs.M. Kopperundevi, Head Mistress, SRNM Girls Hr. Sec. School, Madurai	2.30P M	28.3.2016

LIST OF e-BOOKS AND e-CD

e-Books	24
e-Textbooks	27
e-CD's	3

NUMBER OF STUDENTS JOINED IN NCC

S.NO	ROLL NUMBER	YEAR	NAME
1	12025011	3 RD	T. SHANTHINI

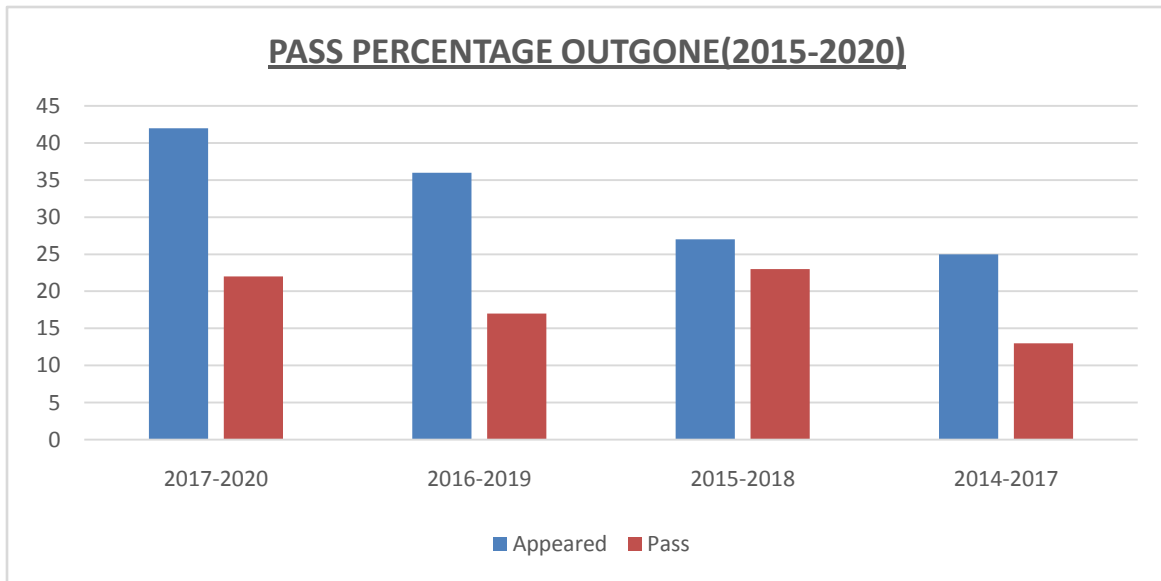
NUMBER OF STUDENTS JOINED IN NSS

S.NO	ROLL NUMBER	YEAR	NAME
1	12025001	3 RD	S. AISHWARYA
2	12025002	3 RD	M. AVANTHIKA

3	12025006	3 RD	B. KAVITHA
4	12025009	3 RD	S.PREETHI
5	12025010	3 RD	K.SANGEETHA
6	12025012	3 RD	K.SANTHIYA
7	12025013	3 RD	K. SAVEETHA
8	12025014	3 RD	P.SHOPANA
9	12025016	3 RD	S. AJITH KUMAR
10	12025019	3 RD	G.HARI BALA
11	12025020	3 RD	R. JONES
12	12025023	3 RD	R. MANIKANDAN
13	12125003	2 ND	M.BHAVANI
14	12125004	2 ND	M.PARKAVI
15	12125006	2 ND	N.BALAMURUGAN
16	12125007	2 ND	S.CHANDRU
17	12125010	2 ND	M.MANI MURUGAN
18	12125011	2 ND	S.MOHAMMED SUMMED
19	12125013	2 ND	V. SETHUPATHI VASUDEVAN
20	12125014	2 ND	A.SETHUPATHI
21	12125015	2 ND	J. SRI BALAGURUNATHAN
22	12125016	2 ND	P.SANJAI

PASS PERCENTAGE OUTGONE(2015-2020)

Year	Appeared	Pass	Percentage
2017-2020	42	22	52%
2016-2019	36	17	47%
2015-2018	27	23	85%
2014-2017	25	13	52%
2013-2016	12	8	66%
2012-2015	8	6	75%



RANK LIST2015-2022

S.NO	ROLL NUMBER	NAME OF THE STUDENT	CLASS
1	11925041	N. Asha Bharathi	First Class
2	11825006	K. Kohilavathani	First Class
3	11725010	S. Seenisyed Ali Fathima	First Class
4	11625017	S. Srinisha	First Class

ALUMINUS

S.NO	NAME OF THE PERSON	DESIGNATION
1	V. RAMESH KUMAR	POSTAL ASSISTANT
2	M. NAGENDRIAN	SENIOR OFFICER PRODUCTION HATSUN AGRO PVT LTD

3	J.HEMALATHA	LAB TECHNICIAN
4	R.M.VIKRAM KUMAR	SENIOR EMBRIOLOGIST THNJAVUR
5	A.NAGARJUN	SUPERVISOR NTEX KARPAGAM ENTERPRISES MELUR
6	S.MANOJ KIYAN	HYGIENIST INDIAN NAVY
7	R.NALINI	LAB TECHNICIAN
8	S.PRADEEPA	LAB TECHNICIAN
9	S.MOOVEDHIRAN	GRADE -II POLICE CONSTABLE
10	R.ABIRAMI	LAB TECHNICIAN
11	M.MAHENDRAN	THYROCCARE MUMBAI
12	KIRUTHIGA	MEDICAL CODING
13	S.ARUNKUMAR	GRADE -II POLICE CONSTABLE
14	R.SANTHOSH KUMAR	DATA CODING
15	RUKUMANI	PHARMACIST
16	M.P.N.GOWTHAM	PHARMACY – QC
17	M.SELVAGANESH	SOLAR ASSEMBLOR TESLA
18	DR.N.SETHALAKSHMI	ASSOCIATE RESEARCH SCIENTIST
19	R.ARJUN	SOLDIER – INDIAN ARMY
20	S.PRAVIN	LAB INCHARGE (ORGANIC MANUFACTURE OF TEXTILE DYE)
21	KARTHICK	DAIRY DAY (PRODUCTION EXECUTIVE)
22	DHIVAGAR	GRADE -II POLICE CONSTABLE

BEST PRACTICE

Best practices in biochemistry department

- Providing hands on training
- True to the spirit of experiment science the course in UG Biochemistry uniquely offers students ample scope for hands on training .The course is thus more on hands –on training rather than didactic lectures only.
- Each students performs every practical with their own hands we do not encourage demonstration based practical at all. Each teacher of the department supervises practical classes directly & helps them perform practical in their area.
- Developments of oratory skills through seminars by students
- The students are given current and important topics by the faculties related to their course curriculum at the beginning of the semester. This practice helps students inculcate value of self-learning while still being guided by a faculty. They get trained in the art of presentation & public speaking.
- Student welfare programme
- Under performance counseling programme namely remedial activities aimed at helping the students with learning difficulties support the students to develop better learning skills

via continuous assessment at the end of every semester the remedial courses are conducted.

FUTURE PLAN

The Future plans of the department

- To acquire doctoral degree, by all the staff members
- To upgrade the departments to post Graduate department ,
- To popularize the natural systems of medicine like siddha , Ayurveda homeopathy , Naturopathy & herbal
- To organize periodical awareness programmes on herbal drug and training programmers on herbal drug preparation for the rural women.
- To start a medical university approved, DMLT/MLT course.
- Extend the consultancy services to industries & hospitals.
- Arranged field trips and industrial visit.

Internship programmes in diagnostics and research centers