



1	<b>Name of the Department</b>	Medical Biochemistry
2	<b>Year of establishment</b>	1968
3	<b>Is the Department part of a School/Faculty of the university?</b>	School of Basic Medical Sciences
4	<b>Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.)</b>	M.Sc. Medical Biochemistry & Ph.D.
5	<b>Interdisciplinary programmes and departments involved</b>	Nil
6	<b>Courses in collaboration with other universities, industries, foreign institutions, etc.</b>	Nil
7	<b>Details of programmes discontinued, if any, with reasons</b>	Nil
8	<b>Examination System: Annual/ Semester/ Trimester/Choice Based Credit System</b>	Semester, Choice Based Credit System
9	<b>Participation of the department in the courses offered by other departments</b>	Anatomy, Physiology, Microbiology, Genetics, Biochemistry, Pharmacology and Environmental Toxicology, Biomedical Sciences and Pathology

**10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)**

**Details as on 2012-2013:**

Category	Professor		Associate Professor		Assistant Professor		UGC Scientists		Grand Total	
	Existing	Addl. Reqd.	Existing	Addl. Reqd.	Existing	Addl. Reqd.	Existing	Addl. Reqd.	Existing	Addl. Reqd.
Existing	1	-	-	-	2	-	-	-	3	-
Proposed		3		2		2		-		8
Total	1	3	-	2	2	2	-	1	3	8

**11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance**

<b>Dr.D.Sakthisekaran</b>	M.Sc., M.Phil., Ph.D.,	Professor and Head	Antioxidants and Anticancer drugs in cancer chemotherapy	35 Years	17 Ph.D. Students
<b>Dr.P.Kalaiselvi</b>	M.Sc., Ph.D.,	Assistant Professor	Kidney stones (Urolithiasis), and Aging	15 Years	4 Ph.D. Students
<b>Dr.T.Sumathi</b>	M.Sc., Ph.D.,	Assistant Professor	Neurosciences and Cardiovascular Diseases	15 Years	1 Ph.D., Students

**i) Retired Professors:**

Name	Qualification	Designation	Specialization	No. of Years of Experience
<b>Dr.Varalakshmi</b>	M.Sc., M.Phil., Ph.D.,	Professor and Head (Retired on 2007)	Kidney Stone	30 Years Until June 2007
<b>Dr.C.Panneer Selvam</b>	M.Sc., M.Phil., Ph.D.,	Professor and Head (Retired on	Aging	30 Years Until June 2008

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Name	Qualification	Designation	Specialization	No. of Years of Experience
		2008)		
<b>Dr.P.Sachidanandam</b>	M.Sc., M.Phil., Ph.D.,	Professor (Retired on 2012)	Cancer and its treatment With indigenous Medicine and Vitamins	30 Years Until June 2012

**12. List of senior Visiting Fellows, adjunct faculty, emeritus professors:**

**i) Visiting Fellows:**

S.No	Name & Qualification	Designation	Major Area of specialization	Duration of Appointments
1	<b>Prof. M.J. Nanjan</b> Director, TIFAC, J.S.S. College of Pharmacy, Ooty,	Visiting Fellow	Pharmacology	2009-2010
2	<b>Dr. K. Sugendran</b> Head, Department of Biochemistry, Institute of Aerospace Medicine, Bangalore	Visiting Fellow	Biochemistry	2009-2010
3	<b>Dr.A.K.Singh</b> , Director, Directorate of Human Resource Development, Ministry of Defense, DRDO, New Delhi – 110 105,	Visiting Fellow	Radio Biology	2010 -2011
4	<b>Prof.P.Palanivelu</b> Professor and Head, Department of Molecular Microbiology, Madurai Kamaraj University, Madurai	Visiting Fellow	Molecular Biology	2010-2012
5	<b>Prof.R.Boopathy</b> Professor and Head, Department of Biotechnology, Bharathiar University, Coimbatore	Visiting Fellow	Biotechnology	2010-2011
6	<b>Prof.D.K. Dhawan</b> , Coordinator, Centre for Nuclear Medicine, University Institute of Emerging Areas in Science and Technology, Panjab University, Chandigarh- 160014	Visiting Fellow	Radio Biology	2011-2012
7	<b>Dr.Ramadasan Kuttan</b> Research Director Amala Cancer Research Institute Thrissur- 580 555.	Visiting Fellow	Cancer Biology	2011-2012

8	<b>Dr. K. Muralidhar, Ph.D.</b> Professor Department of Zoology University of Delhi Delhi – 110 007	Visiting Fellow	Endocrinology	2011-2012
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**ii) Adjunct Professor:**

S.No	Name & Qualification	Designation	Major Area of specialization	Duration of Appointments
1.	<b>Dr. Ikuo Nishigaki</b>	Adjunct Faculty	Antioxidants	2009-2011

**iii) Emeritus Professors: Nil**

**13. Percentage of classes taken by temporary faculty – programme-wise information :**

S.No.	Name & Qualification	Designation (Guest/ Part-time/TRF)	Academic Year	Percentage of Class taken by temporary Faculty
1	Ms.A.Jaya	TRF	2008-2009	20%
2	Ms.D.Kalpana Deepa Priya	TRF	2008-2009	20%
3	Mr.S.Sathish	TRF	2009-2010	20%
4	Ms.M.S.Veena	TRF	2009-2010	20%
5	Ms.S.Dhivya, M.Sc.,	TRF	2010-2011	20%
6	Dr.D.Kalpana Deep Priya	Guest Lecturer	2011-2012	20%
7	Ms. S. Dhivya, M.Sc	TRF	2011-2012	20%
8	Dr.D.Kalpana Deep Priya	Guest Lecturer	2012-2013	20%
9	Ms. M.K.Vanitha, M.Sc	TRF	2012-2013	20%

**14. Programme-wise Student Teacher Ratio : 1:5**

**15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual:**

	Sanctioned	Filled	Actual
Technical Staff	3	1	1:1
Administrative Staff	2	-	1:1
Office Assistant	3	-	1:1
Others			

**16. Research thrust areas as recognized by major funding agencies**

- a) Cancer Biology
- b) Cardiovascular Disease
- c) Kidney disorders
- d) Diabetes
- e) Aging
- f) Neurodegenerative diseases



**Major Project Details of Faculty of Department of Medical Biochemistry:**

Name of the Principal / Co-Principal Investigator	Title of the Project	Sponsored by	Amount Sanctioned	year
Dr. D. Sakthisekaran	Role of piperin and crocetin as promoters of antitumor effects	UGC-UWPFE	4,50,000	2007
Dr. D. Sakthisekaran	“Biochemical and molecular studies on the therapeutic efficacy of ellagic acid along with paclitaxel against DMBA induced breast cancer in aged Sprague Dawley rats”	ICMR	16,32,960	2009 - 2011
Dr. D. Sakthisekaran	Anti-diabetic studies on Taj’s HPR Rice.	Tajmahal Agro Industries	1,00,000	2008 - 2010

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P.Sachdanandam	Evaluation of anticancer and antiproliferative efficacy of a combination therapy against breast cancer studied in Sprague-Dawley rats	UGC-UWPFE	2,70,000	2007-2008
Dr. P. Kalaiselvi	Structural Changes I THP during progressive diabetic nephropathy	UGC-USF	40,000	Apr 2006 -Mar 2007
Dr. P. Kalaiselvi	Mitochondrial DNA deletions and apoptosis in aged rat brain regions: Modulatory roles of L-Carnitine and alpha lipoic acid	UGC	11,04,300	Apr 2006 to Mar 2009
Dr. P. Kalaiselvi	Plausible role of Nitrosative Stress in progression of kidney stone disease and Its Influence on molecular events leading to calcium oxalate crystal deposition	ICMR	10,05,290	April 2007 - March 2010
Dr. P. Kalaiselvi	Food Supplements and Nutraceuticals – Compilation work	TBI	12,000	May 2008
Dr. P. Kalaiselvi	Efficacy of Insulin Inhaler – Testing its bioactivity	TBI	35,000	July 2008- Oct 2008
Dr. P. Kalaiselvi	Implications of hypercholesterolemia on mitotic and post mitotic tissues of young and aged rats with special emphasis on inflammation and apoptosis : Exploitation of EGCG to alleviate stress	DST	35,79,511	Nov 2009- Oct 2012
Dr. P. Kalaiselvi	“Protective role of the Homeopathic preparation of Berberis vulgaris to alleviate kidney stone disease and its influence on molecular events leading to calcium oxalate crystal deposition”	CCRH	29,62,100	Feb.2010- Jan 2012
Dr. P. Kalaiselvi	Neuroprotective Effect of Noni (Morinda citrifolia extract) in restraining the locomotor disturbances in	WNRF	10,00,000	2011

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	animals modeled with Parkinsonism by rotenone			
Dr. P. Kalaiselvi	Pharmacodynamics of EGCG nanoparticles in extenuating dietary cholesterol mediated atherosclerotic plaque progression	DST-NCNST	10,00,000	2011
Dr.T. Sumathi	Effect of Bacoside-a on Morphine induced Pharmacological and Gastrointestinal studies in mice.	UGC	35,000	2007-2008

**Department Project details:**

Scheme	Funding Source	Estimated cost/ Rs.
UGC Infrastructure	UGC	20,00,000
UGC-SAP-DRS-Phase-II 2007-2011	UGC-SAP-DRS	35,00,000
Computer Network	UGC-SAP	10,00,000
DST-PURSE 2010-2013 Chemicals and consumables	DST	10,00,000
DST-PURSE-Equipment	DST	10,00,000

**17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.**

Dr.D.Sakthisekaran	UGC Onetime Grant	UGC	7,00,000	2012-2013
Dr.D.Sakthisekaran	UGC Faculty Fellowship	UGC	Sanctioned	2013-2014
Dr.P.Kalaiselvi	Implications of hypercholesterolemia on mitotic and post mitotic tissues of young and aged rats with special emphasis on inflammation and apoptosis : Exploitation of EGCG to alleviate stress	DST	35,79,511	Feb2010-Jan 2013
Dr.P.Kalaiselvi	Protective role of the Homeopathic preparation of Berberis vulgaris to alleviate	CCRH	29,62,100	Feb2010 - 2013

	kidney stone disease and its influence on molecular events leading to calcium oxalate crystal deposition			
Dr.P.Kalaiselvi	Neuroprotective effect of Noni ( <i>Morinda citrifolia</i> ) extract in restraining the locomotor disturbances in animals modeled with Parkinsonism by rotenone.	WNRF	10,00,000	sanctioned
Dr.T. Sumathi	Neuroprotective effects of Bacopa Monniera in the model of 6-hydroxy dopamine [6-oh da] lesion in rats – Biochemical, Behavioral and Neurochemical Studies’.	UGC-Major Research Project	7,89,800	2011-2014

**18. Inter-institutional collaborative projects and associated grants received**

- a) National collaboration - Nil
- b) International collaboration – Nil

**19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.**

UGC-SAP-DRS Phase-II:	:	2007-2012	Rs.35 Lakh
DST-PURSE	:	2010-2013	Rs.20 Lakh
UGC XI Plan	:	2007-2012	Rs.30 Lakh

**20. Research facility / centre with**

- state recognition : Tamilnadu State Council for Science and Technology
- national recognition : ICMR, CSIR, DBT
- international recognition :

**21. Special research laboratories sponsored by / created by industry or corporate bodies. :** UGC-SAP, UGC XI PLAN

**22. Publications:**

- \* Number of papers published in peer reviewed journals (national / international) : 78
- \* Monographs : Nil
- \* Chapters in Books : 04
- \* Edited Books : 04



- \* Books with ISBN with details of publishers : --
- \* Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) : Nature, Science Direct, Emerald, Springer link, etc.,
- \* Citation Index - range / average :
  - 1. Prof.D.Sakthisekaran : 22 papers 145 Index
  - 2. Dr.P.Kalaiselvi : 14 articles 53 Index
  - 3. Dr.T.Sumathi : 5
- \* SNIP : -
- \* SJR : -
- \* Impact Factor - range / average :
  - 1. Prof.D.Sakthisekaran : 0.2 to 5.00
  - 2. Dr.P.Kalaiselvi : 0.2 to 4.0
  - 3. Dr.T.Sumathi : 0.371 to 3.268
- \* h-index : 19

**23. Details of patents and income generated - Nil**

**24. Areas of consultancy and income generated -**

Name of the Principal / Co-Principal Investigator	Title of the Project	Sponsored by	Amount Sanctioned	Month & Year of Commencement & Duration
Dr. D. Sakthisekaran	Anti-diabetic studies on Taj's HPR Rice.	Tajmahal Agro Industries	1,00,000	2008 – 2010
Dr. P. Kalaiselvi	Neuroprotective effect of Noni ( <i>Morinda citrifolia</i> ) extract in restraining the locomotor disturbances in animals modeled with Parkinsonism by rotenone.	WNRF	10,00,000	2011-2014
All Faculty	M.Sc., /B.Tech. project work	Through UICIC	2,50,000	2007-2012

**25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad**

S. No.	Faculty Name	Foreign Country	Purpose of Visit	Year
1	Prof.D.Sakthisekaran	Japan	Visiting Professor to NPO International Laboratory of Biochemistry, Nagoya.	19.10.2007 to 23.10.2007
2	Prof.D.Sakthisekaran	France	19 <sup>th</sup> International Congress on Anti-Cancer Treatment. Palais des Congres – Paris, France.	5 <sup>th</sup> Feb 2008 to 8 <sup>th</sup> Feb 2008
3	Prof.D.Sakthisekaran	Juelich, Germany	On Invitation to give seminar in MHH	9 <sup>th</sup> Feb 2008 to 11 <sup>th</sup> Feb 2008
4	Prof.D.Sakthisekaran	Hannover, Germany	On Invitation to give seminar in MHH	11 <sup>th</sup> Feb 2008 to 12 <sup>th</sup> Feb 2008
5	Prof.D.Sakthisekaran	Berlin, Germany	On Invitation to give seminar in MDC	13 <sup>th</sup> Feb 2008 to 15 <sup>th</sup> Feb 2008
6	Prof.D.Sakthisekaran	Japan	Visiting Professor to NPO International Laboratory of Biochemistry, Nagoya.	14 <sup>th</sup> Apr 2008 to 20 <sup>th</sup> Apr 2008
7	Prof.D.Sakthisekaran	Japan	Visiting Professor to NPO International Laboratory of Biochemistry, Nagoya.	16 <sup>th</sup> May 2009 to 25 <sup>th</sup> May 2009
8	Prof.D.Sakthisekaran	Japan	Visiting Professor to NPO International Laboratory of Biochemistry, Nagoya.	13th May 2010 to 26th May 2010
9	Prof.D.Sakthisekaran	Japan	Visiting Professor to NPO International Laboratory of Biochemistry, Nagoya.	6 <sup>th</sup> Nov 2010 to 17 <sup>th</sup> Nov 2010
10	Prof.D.Sakthisekaran	Japan	Visiting Scientist, NPO International Laboratory of Biochemistry, Nagoya.	17 <sup>th</sup> Jun 2011 to 26 <sup>th</sup> Jun 2011
11	Prof.D.Sakthisekaran	Japan	Visiting Scientist, NPO International Laboratory of Biochemistry, Nagoya.	30 <sup>th</sup> October 2011 to 8 <sup>th</sup> November 2
12	Prof.P.Sachidanandam	Japan	5 <sup>th</sup> International CoenzymeQ <sub>10</sub> conference at Kobe, Japan	9 <sup>th</sup> – 12 <sup>th</sup> November 2007

**26. Faculty serving in a) National b) Inter National Committees c) Editorial Boards  
d) any other (pl. specify)**

S.No.	Name of the Faculty	Details of the Extension activities	Year
1	Prof.D.Sakthisekaran	UGC Review Committee Meeting at Panjab University, Chandigarh.	February 2010
2	Prof.D.Sakthisekaran	Biochemistry UG & PG Board of Studies Meeting at D.K.M. College for Women, Vellore.	April 2010
3	Prof.D.Sakthisekaran	Programme Committee Meeting at Pondicherry University	May 2010
4	Prof.D.Sakthisekaran	Member of the Expert Committee Meeting, for Selection of Emeritus Fellowship at UGC, New Delhi .	July 2010,
5	Prof.D.Sakthisekaran	Selection Committee Member at University of Calicut	August 2010
6	Prof.D.Sakthisekaran	President of the Indian Association of Biomedical Scientists	2008-2009.
7	Prof.D.Sakthisekaran	Vice-Chancellor's Nominee for Selecting Project Staff for the Major Research Project of University Grants Commission, University of Madras.	2011
8	Dr.P.Kalaiselvi	Extended research facilities to other University Ph.D. Students	2007-2012
9	Dr.P.Kalaiselvi	Handled CSIR Classes for students in the University Campus	2011
10	Dr.P.Kalaiselvi	Involved in consultancy work with WNRF	2011
11	Dr.P.Kalaiselvi	Life Member of Indian Association of Biomedical Scientist	-
12	Dr.P.Kalaiselvi	Life member of Society for Neurochemistry of India (SNCI), India	-
13	Dr.P.Kalaiselvi	Member of Urolithiasis Society of India (USOI)	-
14	Dr.P.Kalaiselvi	Member of Board of Studies in Biochemistry for Bharathi Women's College (Autonomous), Chennai	-
15	Dr.T.Sumathi	Consultancy Training Programme for M.Sc./B.Tech students for their Project work through UICIC	2011-2012

**27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).**

- Dr.P.Kalaiselvi, Assistant Professor attended the Faculty refresher course-UGC Academic Staff College.
- Dr.T.Sumathi, Asst. Professor participated in the Workshop on “Short-term courses for research guides in Science” held on 8<sup>th</sup> to 12th March 2010 in the Academic Staff college, University of Madras.
- Dr.P.Kalaiselvi, Chaired a session in the International Seminar entitled, “Biochemistry for Tomorrow’s Medicine” by Justice Basheer Ahmed College for Women, Chennai on 22<sup>nd</sup> February, 2012.
- Dr.P.Kalaiselvi, attended a Seminar on “Translation from laboratory to bedside” conducted by Frontier Lifeline Mediville, Gumidipoondi on 21<sup>st</sup> January, 2012

**28. Student projects**

- (i) percentage of students who have done in-house projects including inter-departmental projects : 100% of our M.Sc., Students have been done their project in the Dept.
- (ii) percentage of students doing projects in collaboration with other universities / industry / institute. : 40% of Ph.D. Students doing their Project with other Institutions such as IIT - Madras, CLRI,Tamilnadu Veterinary University, CMC- Vellore, Dr.MGR Medical ,University, National Centre for Cell Sciences- Pune,TRC-Chennai.

**29. Awards / recognitions received at the national and international level by**

- Faculty –



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Faculty Name	Name of the Award	Conferred by the Agency	Year
Prof.D.Sakthisekaran	SOMPS Poster Award	19 <sup>th</sup> International congress on Anti-cancer treatment held at Paris, France from	8 <sup>th</sup> Feb. 2008.
Prof.D.Sakthisekaran	Mr.M.K.Nambiar Memorial oration award	1. Indian Association of Biomedical Scientists	November 2009
Prof.D.Sakthisekaran	Indira Vasudevan Award, Gold Medal	Best paper in Cancer Research from the Indian Association of Biomedical Scientists–	2009
Prof.D.Sakthisekaran	WHO IS WHO in the world for Publication	Marqui's, Who is Who's Publications Board, USA.	December 2010.
Prof.D.Sakthisekaran	Academic Achievement Award	University of Madras	2011
Prof.D.Sakthisekaran	Teaching in Excellence in Medical Biochemistry	INDO-US Foundation, Hyderabad	2013
Prof.P.Sachidanandam	TANSA Award	Government of Tamil Nadu	2010
Dr.P.Kalaiselvi	Siri Research Award	Indian Association of Biomedical Scientists in	2008
Dr. P. Kalaiselvi	FABMS	Indian Association of Biomedical Scientists	2008

**a) Doctoral fellows achievements:**

- i. Gayathri R attended the Workshop on “Computational Sources for Drug discovery” held at Tuberculosis Research Centre, Chennai – 600 031 from 24<sup>th</sup> to 26<sup>th</sup> November, 2008
- ii. Kalpana Deepapriya, D attended the Workshop on “Computational Sources for Drug discovery” held at Tuberculosis Research Centre, Chennai – 600 031 from 24<sup>th</sup> to 26<sup>th</sup> November, 2008
- iii. Jaya A and Sachdanandam, P participated in “INDO-US Workshop on Mitochondrial Research and Medicine” held at Manipal University, Manipal during 12<sup>th</sup>-14<sup>th</sup> November 2008 and presented a poster entitled “Mitochondrial protective effects of *Semecarpus anacardium* in diabetic rats”
- iv. Senthilkumaran V and Kalaiselvi P participated in “INDO-US Workshop on Mitochondrial Research and Medicine” held at Manipal University, Manipal during 12<sup>th</sup>-14<sup>th</sup> November 2008 and presented a poster entitled “Attenuation of senescence mediated redox imbalance in post-mitotic tissue of aged rats by Epigallocatechin-3-Gallate (EGCG) with special reference to Apoptosis”.

- v. Senthilkumaran V and Kalaiselvi P participated and presented a poster entitle“Screening for angiotensin converting enzyme (ACE) gene polymorphism in ischemic heart disease patients” in “National conference on Genomics, Proteomics & System Biology” held at IISc Campus, Bangalore during 1<sup>st</sup> to 3<sup>rd</sup> October 2008.
- vi. Srividhya R and Kalaiselvi P participated in “National conference on Genomics, Proteomics & System Biology” held at IISc Campus, Bangalore during 1<sup>st</sup> to 3<sup>rd</sup> October 2008.
- vii. Jayasudha E and Kalaiselvi P participated in “INDO-US Workshop on Mitochondrial Research and Medicine” held at Manipal University, Manipal during 12<sup>th</sup>-14<sup>th</sup> November 2008 and presented a poster entitled “Triogerring the events of mitochondrial mediated apoptosis in the different models of experimental hyperoxaluria”.
- viii. Mr.V.Senthilkumaran participated in the training programme in *In situ* hybridization techniques organized by Department of Physiology, AIIMS, New Delhi.
- ix. Mr.V.Senthilkumaran participated in the workshop in Micro array techniques organized by Manipal University, Manipal.
- x. Mr.K.Thulasi Raman attended the Interaction Program for Ph.D. scholars conducted by UGC, Academic Staff College by University of Madras.
- xi. Mr.K.Thulasi Raman attended the National Workshop on Usage of Statistical packages” conducted by the Department of Statistics, University of Madras.
- xii. Mr.K.Periyasamy attended Participated in the Regional Science Congress on Science for Shaping the Future of India, organized by the Indian Science Congress Association, Coimbatore Chapter at Kongunadu Arts and Science College, Coimbatore- 641 029 on 15<sup>th</sup> and 16<sup>th</sup> December 2012.
- xiii. Mr.K.Periyasamy participated in Dr.Sarada Subramaniam Memorial Workshop “Basic Tehniques in Cell culture” at Internation symposium on “Recent Trends and advances in Biomedical Research-an Integrated Approach” on November 1-3, 2012 at Nitte University, Mangalore.
- xiv. K.Periyasamy, participated The Indus Foundation of “Indo-American Education Summit and Expo 2013, on February 1 to 5, 2013, at Marigold By Green Park, Hyderabad, India.

- b) **Students** : Attended the National Conferences, workshops, Lecture Programme, University of Madras, Taramani, Chennai.

**30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.**

Seminars/Conferences/Workshops organized = 19  
(Details furnished in Appendix II)

**31. Code of ethics for research followed by the departments -**

UGC regulations on minimum standard and procedure for the award of M.Phil/Ph.D. degree – 2009 and guidelines of Institutional Animal Ethical Committee are followed.

**32. Student profile programme-wise:**

Name of the Programme (refer to question no. 4)	Academic Year	Applications received	Selected		Number of Passed students
			Male	Female	
M.Sc., Medical Biochemistry	2007-2008	365	10	13	23
	2008-2009	407	8	15	23
	2009-2010	311	6	17	23
	2010-2011	236	4	18	22
	2011-2012	165	2	18	20
Ph.D., Medical Biochemistry	2007-2008	9	6	3	10
	2008-2009	5	2	3	4
	2009-2010	15	8	7	9
	2010-2011	11	5	4	8
	2011-2012	6	3	3	6

**33. Diversity of students**

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
M.Sc., Medical Biochemistry	50%	35%	14%	1%
Ph.D., Medical Biochemistry	60%	30%	10%	-

**34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.**

UGC NET	-	2 Students/Year
GATE	-	2 Students/Year
SET	-	2 Students/year

**35. Student progression**

<b>Student progression</b>	<b>Percentage against enrolled</b>
UG to PG	-
PG to M.Phil.	10%
PG to Ph.D.	60%
Ph.D. to Post-Doctoral	78%
Employed	
• Campus selection	10%
• Other than campus recruitment	22%
Entrepreneurs	

**36. Diversity of staff**

<b>Percentage of faculty who are graduates</b>	
of the same university	90%
from other universities within the State	10%
from universities from other States	-
from universities outside the country	-

**37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period**

Prof.P.Sachidanandam was awarded the D.Sc.

**38. Present details of departmental infrastructural facilities with regard to**

a) Library -

<b>No. of Department Library Books</b>	<b>International Journals Subscribed (Give Names)</b>
412 Books (From the Madras University Grants and UGC-SAP-DRS-Phase II Grants)	i) Free Radicals in Biology and Medicine ii) Journal of Nutritional Biochemistry



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**Equipments details:**

Name of the Equipment	PROGRAMME	Installation Date	Cost in INR	Condition
Ultra Deep Freezer -80°C	DST-FIST	04.09.2002	Rs.5,10,922	Working
Millipore Water Purification System	UGC-SAP-DRS	31.08.2004	Rs.1,81,700	Working
Metler Electronic Balance	UGC-SAP-DRS	05.12.2003	Rs.1,39,360	Working
Trinocular Microscope (Light)	CSIR-Project	23.03.1998	Rs.3,80,678 *AMC 01.04.2011 to 31.03.2012	Working
ELISA -Reader	UGC-SAP-DRS	29.05.2004	Rs.4,20,097	Working
Inverted Microscope	DST-FIST	23.01.2006	Rs.1,35,460	Working
Vestfrost make-Freezer vertical	UGC-SAP-DRS	28.03.2005	Rs.53,100	working
Electroporation System	UGC-SAP-DRS	14.05.2004	Rs.1,92,050	Working
Sonicator	UGC- IX-Plan	18.03.2002	Rs.59,964	Working
Projector TDP – T100	UGC- X-Plan	30.03.2007	Rs.98,137	Working
Semi Dry Blotter	UGC- X-Plan	30.03.2007	Rs.1,04,978	Working
CO2 Incubator	UGC-Infrast.	07.05.2008	Rs.6,00,000	Working
High Speed Cooling Centrifuge	ICMR	11.03.2008	Rs.1,29,844	Working
PCR	ICMR	11.08.2008	Rs.1,96,611	Working
LCD Projector Toshiba	UGC-Infrast.	27.06.2008	Rs.90,000	Working
Spectrophotometer	CSIR	26.06.1990	Rs.7,36,891	Working
Nano-Drop Spectrophotometer	DST-PURSE	09.02.2011	\$10,400	Working
PCR	UGC X-PLAN	30/3/2007	Rs.1,12,000	Working
Hybridization Incubator	UGC-SAP-DRS	03.06.2004	Rs.2,26,273	Working
Orbital Shaker	UGC-SAP-DRS	10.07.2003	Rs.65,021	working
Spctrophotometer and Spectrofluorimeter	MEF	13.01.1999	Rs.6,00,000	Working
Freezer -40°C	UGC Grant Onetime	2013	Rs.1,00,000	Working
Western Blotting Unit (Bio-rad)	UGC Grant Onetime	2013	Rs.2.00,000	Working
Centrifuge (Remi)	UGC Grant Onetime	2013	Rs.50,000	Working

**Others:**

Item detail	Cost Rs.	Nature of Utilization
Civil work (M. Sc. Lab)	3,98,295	For civil work
U Table and Revolving Chairs (12nos.)	89,620	For seminar Hall
Electrical work	96,150	Electrical work in the Department
Tubular chair with Arm & Cushion Seat & Back (20 nos.)	44,825	For seminar Hall
Digital Copier (Xerox Machine)	1,72,000	For Departmental use
Computer Lab for Networking Computers 10 Nos Printers 4 Nos LG Split A/C 2 Nos.	10,00,000	For Students & Faculty
Laboratory Partition work and Tails	2,00,000	Department

- b) Internet facilities for staff and students - Internet with computer Laboratory Facility
- c) Total number of class rooms - One Class Room
- d) Class rooms with ICT facility - Class Rooms having Projector with computer facilities and Internet facilities.
- e) Students' laboratories -400 Sq. m.
- f) Research laboratories -488.93 Sq. m.

**39. List of doctoral, post-doctoral students and Research Associates :**

- a) from the host institution/university

S.No.	Name of the Research Scholars	Details of the Fellowship	Status
1	Mr.Devaraja	CSIR-SRF	Completed
2	Mrs. V. Jothilakshmi	CCRH - SRF	Completed
3	Mr. V. Dharmendra	UGG- RFSMS	Completed
4	Mr. R. Sundaram	UGG- RFSMS	Completed
5	Ms. S. Kaladevi	TNJRF	Completed
	Ms. G. Thellamaudhu	CCRH-JRF	Doing
6	Mr. R. Naresh Kumar	UGG- RFSMS	Completed
7	Mrs. M.S. Veena	UGG- RFSMS	Completed
9	Mr. V. Kamesh	UGG- RFSMS	Completed
10	Ms. R. Latha	JNMF	Completed
11	Mr. M. Suresh	ICMR - SRF	Completed
12	Mrs. C. Shobana	UGC-MAJOR-JRF	Doing
13	Mr. V. Sivabalan	Non-Stipendiary	Completed

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14	Ms. G. Nithya	Non-Stipendiary	Completed
15	Ms. S. Dhivya	TRF	Doing
16	Ms. K. Kanchana	DST-PURSE-JRF	Completed
17	Mr. K. Thulasi Raman	DST-JRF	Doing
18	Ms. N. Rajeswari	DST-INSPIRE	Doing
19	Ms. C. Anusha	URF	Doing
20	Mr.A.Ashok Kumar	NCNST-JRF	Doing
21	Mr.Kishore Kumar	WNRJF-JRF	Doing
22	Mrs.E.Jayasudha	UGC-RFSMS	Completed
23	Mr.E.Nandhakumar	Non-Stipendiary	Doing
24	Ms.A.IIakkia	Non-Stipendiary	Doing
25	Ms.V.Prema	Non-Stipendiary	Doing
26	Ms.J.Christinal	Non-Stipendiary	Doing
27	Mr.K.Periyasamy	Non-Stipendiary	Doing
28	Ms. M.K. Vanitha	TRF	Doing
29	Mr.K.Baskaran	Non-Stipendiary	Doing
30	Ms.D.Asha	Non-Stipendiary	Doing
31	Ms.S.N.Suganya	Non-Stipendiary	Doing
32	Mr.S.N.Kishore Kumar	DST-JRF	Doing
33	Mr.Ashok Kumar	DST-JRF	Doing
34	Mr.S.Selvaraj	Non-Stipendiary	Doing
35	Mr.Lakshmi Narashimhan	Non-Stipendiary	Doing
36	Ms.Abhilasha	Non-Stipendiary	Doing
37	Ms.K.Kasthuri	Non-stipendiary	Doing
38	Mrs.R.Venkateswari	Part-Time	Completed
39	Mrs.R.Revathi Mani	Part-Time	Completed
40	Mrs.M.Uma	Part-Time	Completed
41	Mrs.S.Suganthi	Part-Time	Completed
42	Mrs.U.Indumathi	Part-Time	Completed
43	Mr.A.Purushothaman	Part-Time	Completed
44	Mr.D.Saravanan	Part-Time	Doing
45	Ms.Aiswarya	Full Time	Doing
46	Ms.Surekha	Full Time	Doing

b) from other institutions/universities -30% of Ph.D. students from Other University

**40. Number of post graduate students getting financial assistance from the university. -**

- (i) Ms.Subhasmita Pradhan has been awarded as Library Assistant under the “Earn you while learn scheme – 2008-2009.
- (ii) Madras University Merit Fellowship - Ms. P. Anto Jeniffer and Ms. K. Ponshanmugha lakshmi, II M.Sc. Medical Biochemistry
- (iii) Arignar Anna Endowment Scholarship – Ms. N. Rajeswari, II M.Sc., Medical Biochemistry.
- (iv) Madras University Free Education Scheme-2009 Mr.S.Kumaran, II – M.Sc., Medical Biochemistry.
- (v) Madras University Merit Fellowship - 2009 Ms. P. Anto Jeniffer and Ms. K. Ponshanmugha lakshmi, II M.Sc. Medical Biochemistry.
- (vi) K.Periyasamy has been awarded as a Laboratory Assistant under the “Earn you While Learn Scheme – 2010” in the Department of Medical Biochemistry, University of Madras.
- (vii) J.Padmanaban has been awarded as a Library Assistant under the “Earn you While Learn Scheme – 2010”.
- (viii) K.Bhavani has been awarded as a Laboratory Assistant under the “Earn you While Learn Scheme – 2010”
- (ix) Indira Gandhi single girl child scholarship : 4 Students

**41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.**

Nil

**42. Does the department obtain feedback from**

**a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?**

Yes. Feedback received from the faculties is placed before the Departmental Committee to revise the curriculum.

**b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?**

Students on staff – every academic year feedback is obtained by the IQAC and the findings are communicated to the faculty individually every year. The feedback is taken into account for confirmation/ promotion.

**c. Alumni and employers on the programmes offered and how does the department utilize the feedback?**

YES – Representation from Industries are members of the Board of Studies

**43. List the distinguished alumni of the department (maximum 10)**

- i) Dr.R.Selvam, Former Professor and Head, Department of Medical Biochemistry, University of Madras, Taramani, Chennai-600 113.
- ii) Dr.P.Varalakshmi, Professor and Head (Rtd.), Department of Medical Biochemistry, University of Madras, Taramani, Chennai-600 113.
- iii) Dr.C.Panneerselvam, Professor and Head (Rtd.), Department of Medical Biochemistry, University of Madras, Taramani, Chennai-600 113.
- iv) Dr.P.Kalaiselvi, Assistant Professor, Department of Medical Biochemistry, University of Madras, Taramani, Chennai – 600 113.
- v) Dr.G.S.Selvam, Professor and Head, Department of Biochemistry, Madurai Kamaraj University, Madurai- 625021.
- vi) Dr.N.Vasanthi, Professor and Head, Department of Biochemistry, Bharathidasan University, Trichirapalli- 620023.
- vii) Dr.Kamalakshi Krishnamurthy, Deputy Director, DNA Division, Forensic Science Department, Chennai – 600 004.
- viii) Dr.P.Shanthi, Professor and Head, Department of Pathology, University of Madras, Taramani, Chennai-600 113.
- ix) Dr.C.Thirunavukkarasu, Assistant Professor, Dept. of Biochem. & Mol.Biology Pondicherry University, Puducherry-605 014.
- x) Dr.Ranga Parthasarathy, Associate Professor, Dept. of Psychiatry and Behavioral Sciences, University of Louisville, 550 S Jackson Street, 1st Floor, Louisville, Kentucky 40202, USA.
- xi) Dr.A.S.Ebrahim, Research Scientist, Department of Internal Medicine, Wayne State University, School of Medicine, Detroit, USA.
- xii) Dr. Dhandapani Kuppaswamy, Associate Professor of Medicine , Gazes Cardiac Research Institute, Charleston, SC 29403, USA.

**44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.**

<b>Name &amp; Dates of the Conference-/Seminar/ Endowment Lectures/ Invited Lectures</b>	<b>Nature (National / International, etc.)</b>	<b>Delivered by</b>
Senior Prof. K. Radha Shanmugasundaram Endowment on 6 <sup>th</sup> November, 2007	Protein kinase signaling in cardiac hypertrophy	DR. K. Dhandapani, Ph.D. Associate Professor Gazes Cardiac Research Institute Medical University of South Carolina United States of America
National Seminar on 9 <sup>th</sup> March 2009	the Role of Antioxidants in the Treatment of Diseases	Eminent Scientist across the Nation  Dr.R.Puvanakrishnan, Scientist, CLRI.  Dr.C.Thirunavukkarasu, Assistant Professor, Pondicherry University  Prof. S.Niranjali Devaraj, Professor and Head, Department of Biochemistry, University of Madras  Prof. N.Srinivasan, Professor, Department of Endocrinology, University of Madras.  Prof. S. Venkataraman, Professor, Department of Pharmacology, Pharmacy college, Chennai.
Visiting Fellow Lecture on 29 <sup>th</sup> March , 2010	Quality control and standardization of Traditional medicine/Herbal Drugs	Prof. M.J. Nanjan, Director, TIFAC, J.S.S. College of Pharmacy, Ooty,
Visiting Fellow Lecture on 31 <sup>st</sup> March , 2010	Development of ABO Blood Grouping Card a new concept	Dr. K. Sugendran, Head, Department of Biochemistry, Institute of Aerospace Medicine, Bangalore

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<p>National Seminar on 25<sup>th</sup> February 2011</p>	<p>Emerging Trends in complementary Medicine</p>	<p>Dr.A.Srinivasan, Associate Professor, Department of Biophysics, All India Institute of Medical Sciences (AIIMS), New Delhi</p> <p>Dr.M.N.Ponnusamy CSIR – Emeritus Professor CAS-Crystallography and Biophysics University of Madras Maraimalai Valaaham Guindy, Chennai – 600 025.</p> <p>Dr.R.Puvanakrishnan, Emeritus Scientist Department of Biotechnology Central Lather Research Institute Adyar, Chennai – 600 020.</p> <p>Dr.B.Nagarajan Chairman Department of Microbiology and Tumor Biochemistry Cancer Institute Adyar, Chennai – 600 020.</p> <p>Dr.M.A.Hussain General Secretary, IABMS, 24, Saaranga Avenue Main Street, Old Perungalathur, Chennai – 600 063.</p> <p>Dr.K.Srikumar Professor and Head Department of Biochemistry and Molecular Biology School of Life sciences Pondicherry University Kalapet, Puducherry – 605 014.</p>
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		Dr. S. Niranjali Devaraj Professor and Head Department of Biochemistry University of Madras Maraimalai Valaaham Guindy, Chennai – 600 025.
Invited Lectures on 4 <sup>th</sup> March 2011.	“Cloning and Overexpression of a Chitinase Gene from a Thermophilic Fungus in Saccharomyces cerevisiae”	Dr. P. Palanivelu, Professor and Head, Department of Molecular Microbiology, Madurai Kamaraj University, Madurai
Invited Lectures on 4 <sup>th</sup> March 2011. On 9 <sup>th</sup> March 2011.	“UBL Urease to Brain Choline esterases”	Dr.R.Boopathy, Professor and Head, Department of Biotechnology, Bharathiar University, Coimbatore – 641 046
Invited Lectures on 17 <sup>th</sup> March 2011.	“Internal decorporation of fission produced radio Nuclides”	Dr.A.K.Singh, Director, Directorate of Human Resource Development, Ministry of Defense, DRDO Bhavan, Rajaji Marg, New Delhi – 110 105
Prof. K.V. Thiruvengadam Endowment Lecture” on 8 <sup>th</sup> March 2011	“Healthy Heart for Hearty Health”	Prof.V.Chockalingam, Emeritus Professor, Dr.M.G.R. Medical University, Chennai.
Prof. B.Kizar Ahamath Endowment Lecture” on 18 <sup>th</sup> March 2011	Incretin based therapy in Diabetes Mellitus	Dr.P.G.Sundararaman Senior Consultant in Medical Endocrinology Apollo Hospitals, Greams Road,Chennai. Billroth Chennai Kalliappa Hospital, Chennai.
Senior Prof. K.Radha Shanmugasundaram, Endowment Lecture on Tuesday, 6 <sup>th</sup> November, 2007 at 03.30 P.M.	Protein Kinase Signaling in cardiac hypertrophy	Dr. K. Dhandapani, Ph.D. Associate Professor, Gazes Cardiac Research Institute, Medical University of South Carolina, USA.
The Maharajah of Travancore Curzon Endowment Lecture on 17 <sup>th</sup> February 2012	Evaluation of Speech and Hearing Impairment	Dr.A.Muraleedharan Professor and Director UIORL Madras Medical College Chennai-600 003



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Visiting Fellow Lecture on 20 <sup>th</sup> February 2012	Microheterogeneity in Protein Hormones and Its Physiological Significance	Prof.K.Muralidhar Professor, Dept of Zoology, University of Delhi, Delhi – 110 007.
Special lecture Programme on 28 <sup>th</sup> February 2012	Skin problems and future Dermatology	Dr.G.Ravichandran, Dermatologist, Lifeline Cliniq, Adyar, Chennai- 20
Special lecture Programme on 29 <sup>th</sup> February 2012	Diabetes Mellitus-“A to Z”	Dr.I.Periyandavan, Institute of Diabetology, Madras Medical College, Chennai – 600 003.
Visiting Fellow Lecture on 2 <sup>nd</sup> March 2012	Radio Isotopes in Research, Imaging and Therapy	Prof.D.K.Dhawan, Professor, Panjab University, Chandigarh
Visiting Fellow Lecture on 6 <sup>th</sup> March 2012	Use of alternative therapy in the prevention and treatment of cancer-preclinical and clinical studies	Dr.Ramadasan Kuttan, Scientist, Oncology.
Special Lecture programme on 7 <sup>th</sup> March 2012	Role of Micro RNA's in Cancer	Dr.D.Karunakaran, Professor, Department of Biotechnology, IIT Madras, Chennai-36
Special Lecture programme on 9 <sup>th</sup> March 2012	Cardiac Arrhythmias	Dr.K.Chandrasekar, Senior Consultant Cardiologist & Electrophysiologist, Fortis Malar Hospital, Chennai-20
Special Lecture Programme on 14 <sup>th</sup> March 2012	Molecular Basis of Osteoporosis	Dr.N.Srinivasan, Professor, Department of Endocrinology, University of Madras, Taramani.

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<p>“Phytochemicals as Therapeutics” National seminar On 24<sup>th</sup> and 25<sup>th</sup> February 2012</p>	<p>Herbal medicines for Parkinsonism</p>	<p>Prof.Dr.S.Venkataraman Director, C.L.Baid Metha College of Pharmacy Rajivgandhi salai (OMR0) Thorapakkam Chennai-600097</p>
	<p>Phytotherapeutics – the Case of Plumbagin and Juglone</p>	<p>Dr.Rama Rajaram, Biochemistry Laboratory, Central Leather Research Institute, Chennai-600020</p>
	<p>Phytochemicals in Siddha Iatro chemistry and their therapeutics in Siddha medicine</p>	<p>Dr.P.Jayaprakash Narayanan Chairman &amp; Managing Director Jaya Indian Medicine Pharmaceutical Pvt. Ltd. Chennai</p>
	<p>Therapeutic effect of anti-cancer drugs, Bleomycin, Doxorubicin and Cisplatin on squamous cell carcinoma of Skin</p>	<p>Dr.Rajeswari, Professor, All India Institute of Medical Sciences, New Delhi-110029</p>
	<p>Standardization and validation of Herbal products</p>	<p>Dr. S. Narasimhan Director Asthagiri Herbal Research Foundation, Chennai – 600 047.</p>
	<p>Phytochemicals Characterization and Significance</p>	<p>Dr.A.Saraswathy, Director, Captain Srinivasa Murti Drug Research Institute for Ayurveda, (CCRAS, Min. of H&amp;FW, Govt. of India), Arumbakkam, Chennai – 106</p>
<p>Special Lecture Programme on 11<sup>th</sup> March 2013</p>	<p>Perspectives in Modern Cancer Biology</p>	<p>Dr.B.Nagarajan, Distinguished Professor, Tamil Nadu Dr.MGR Medical University, Cancer Institute, Adyar, Chennai-20</p>
<p>Special Lecture Programme on 11<sup>th</sup> March 2013</p>	<p>Microbial Enzyme Technology &amp; Drug Development</p>	<p>Dr.R.Puvanakrishnan, Emeritus Scientist, CLRI, Adyar, Chennai – 20</p>

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Special Lecture Programme on 12 <sup>th</sup> March 2013	Biomedical Applications of Nano Materials	Dr.S.Sriman Narayanan, Professor and Head, Department of Analytical Chemistry, University of Madras, Guindy-25
Special Lecture Programme on 12 <sup>th</sup> March 2013	Vitamin-a malnutrition-real or myth?	Dr.G.Rajagopal, Professor of Biochemistry, Dr.Kamakshi Memorial Hospital, Chennai-100
Special Lecture Programme on 14 <sup>th</sup> March 2013	Vaccinology-Basic concepts & recent advances	Dr.P.Mullainadhan, Professor, Department of Zoology, University of Madras, Guindy.
Special Lecture Programme on 14 <sup>th</sup> March 2013	Siddha Medicines and Non-Communicable Diseases	Dr.G.Sivaraman, Managing Director & Chief Siddha Physician, Arogya Health Care Pvt., Ltd., Chennai - 10
Special Lecture Programme on 20 <sup>th</sup> March 2013	Importance of Biochemistry in Science and Technology	Dr.C.Victor Rajamanikkam, Director, Sai Ram Advance Centre for Research, Chennai-44.
Special Lecture Programme on 21 <sup>st</sup> March 2013	Drug Discovery from plants	Dr.N.Raaman, Professor, CAS in Betony University of Madras, Guindy, Chennai-25.
Special Lecture Programme on 21 <sup>st</sup> March 2013	Sticky Glycans-Their role in Pathogenesis	Dr.S.Niranjali Devaraj, Professor and Head, Dept of Biochemistry, University of Madras, Guindy, Chennai-25.
Dr.P.Kutumbiah Memorial Endowment lecture (Medicine)	Oral and Systemic Disease-is there a connection?	Dr.Jaideep Mahendra, Professor, Department of Periodontology, Meenakshi Ammal Dental College, MAHER, Chennai-95.

**UGC-SAP-DRS-Phase-II Advisory Committee Member:** Visited our Department of Medical Biochemistry, from 2009-2012

- a) Prof. Cletus D'Sauza, Professor, Department of Biochemistry, University of Mysore, Mysore.
- b) Prof. C.Subramanyam (Rtd), Professor, Department of Biochemistry, Osmania University, Hyderabad.

**45. List the teaching methods adopted by the faculty for different programmes.**

Black board teaching, Power Point, LCD projector and students seminar

**46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**

Through seminars, and sessional tests.

**47. Highlight the participation of students and faculty in extension activities.**

- The Department has conducted an ENT Camp at Taramani and Chepauk Campuses in March 2012.
- The department has conducted a Dental Camp at Taramani and Guindy Campuses in March 2013
- Students involved in the NSS Programme, University of Madras.
- Students participated in the sports activities, University of Madras
- Students involved in Yoga Practices, University of Madras
- Students involved in the maintenance of Campus from the Students Welfare Association of Dr.ALMPGIBMS (SWAD), University of Madras.

**48. Give details of “beyond syllabus scholarly activities” of the department.**

- ❖ Involved in the CSIR NET Coaching Programme

**49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.**

Yes. University Grants Commission in the form of Special Assistance Programme, Departmental Research Support, New Delhi.

**50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.**

- ❖ Conducted Elective papers and consultancy Projects through UICIC.

**51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**

**Major Strength of the Department:**

- Excellent Teaching Faculty who have won many awards and prizes.
- Sophisticated instrumentation facilities
- Foreign Collaboration
- UGC SAP-DRS and DST – FIST Programmes
- Individual Projects by the faculty

**Weakness of the Department:**

- Shortage of staff

**Opportunities:**

- Ample scope for getting employment in Research position are wide open at National and International level.

**Challenges:**

- Venturing into Stem cell Research, Cancer Chemotherapy with natural antioxidants, Aging and Neurodegenerative Disorders are challenging task before our faculty and Research Scholars.

**52. Future plans of the department.**

To create a National Centre for Free Radical Research in the treatment of various diseases including Cancer, Diabetes, Cardio vascular diseases, Aging, Neurodegenerative diseases, and Kidney disorders.