

DEPARTMENT OF BIOCHEMISTRY

1. Introduction

The department of Biochemistry under Sri Devaraj Urs Medical College a Constituent College of Sri Devaraj Urs University, Kolar is a modern research-intensive enterprise within the faculty of Medicine. The Department was founded in 1986 and has a proud tradition on excellence in research and teaching. The department boasts of faculties with research experience in their respective field.

“Biochemistry brings molecular science to life”

Biochemistry occupies a Central place in life sciences and encompasses traditional such as Molecular Biology, Cell Biology a newer areas such as bioinformatics. Our faculty members are involved in various research activities in Clinical Medicine, Molecular medicine, and Molecular cell biology.

The department has fully equipped modern Clinical laboratory and excellent research facility for Undergraduates, Post graduates and faculties.

The department offers programs for MBBS, MD (Biochemistry) Ph.D (Medical Biochemistry) Diploma in Genome Lab Technology & M.Phil, B.Sc. Medical Laboratory Technician, and B.Sc. Nursing degrees, attracting students from all over India and abroad. The department hosts an array of seminars and symposiums presented by the faculties and Postgraduates of the department regularly.

The department is also proud to announce the commencements of Ph.D course from the academic year 2009-10. We offer excellent student friendly Teaching learning methodologies as per Medical Education Unit norms which have been appreciated extensively by the students.

We are particularly proud of our Laboratory programs which express students to a wide range of techniques applicable to the Clinical medicine.

The department is oriented in emphasizing the importance of reproach for undergraduates. Along with this various Inter and Intra departmental research activities have been implemented by the Staffs and Post graduates.

The college campus provides a rich mosaic of neighbourhood and activities in a vibrant multi-cultural milieu and is conveniently located in the periphery of the city Kolar, close to the hospital research institute, housing, hostel and other amenities.

Dr. K.N. Shashidhar, MBBS, M.D.

Professor and Head
Department of Biochemistry,
Contact:
drshashikn1971@yahoo.co.in

HODs from 1-1-1987 to till date.

Sl.No.	Name	From	To
1.	Dr. H.V.Shetty	03-12-1986	30-10-2000
2.	Dr. S.M. Raju	01-11-2000	15-04-2001
3.	Dr. H.V. Shetty	16-04-2001	28-05-2002
4.	Dr. A.V. M.Kutty	29-05-2002	31-10-2003
5.	Dr. H.V. Shetty	01-11-2003	31-12-2007
6.	Dr. Kaushik Bhowmick I/c HOD	01-01-2008	31-03-2008
7.	Dr. Krishnamurthy.N	01-04-2008	12-11-2012
8.	Dr. Ashakiran.S	13-11-2012	15-02-2013
9.	Dr. K.N. Shashidhar	23-02-2013	Till date

2. Programmes offered

- MBBS (recognized by MCI)
- MD Biochemistry (recognized by MCI)
- Ph.D.
- B.Sc. Nursing
- B.Sc. Medical Laboratory Technician
- B.Sc. Operation Theatre Technician.
- Diploma in Genome lab Technology and
- M. Phil

3. Facilities:

- Well-equipped Central Clinical Laboratory
- State of art Practical Hall for Undergraduate students
- Research Lab for Post graduates and Staff
- Departmental Library
- Computer reference facilities
- Modern lecture and Tutorial Halls for students and Modern facilities for presentations - LCD and OHP
- Lap top
- Internet – LAN

5. Publications – for the last 5 years (from January 2007 till date)

Sl.No.	Author	Paper Title
1	Dr. Jeevan Shetty, Dr. Shashidhar.K.N, Dr.Pampapathy Sureshababu	“Serum paraoxanase activity and Protein thiol in Chronic renal failure”. Asian Journal of Biochemistry, an International Journal 1 st May 2007
2	Dr. Shashidhar K.N, Mrs. Mamatha Kunder, Mrs. Anitha Shenoy etal.	“Hyper magnesium in Diabetic End Stage and Disease (ESRD) Patient” IJCB 2007 , National journal.164,22(2)
3	Dr.Parineetha PB, Dr. Shashidhar K.N. Dr.Gopalkrishna Bhat.P.	“Serum Lp(a) measurement in Myocardial Infarction- are second thoughts necessary “? IJPD a National Journal Vol 3, No.6, 2007
4	Dr. G.Singh, Dr.C.D. Dayanand.	“ Diphenylcyclopropenone immune therapy in ophiiasis” IJVDL,2007 73, issue P(6):432 -433
5	Dr.Kaushik Bhowmick, Dr. A.V.M.Kutty, Dr. H.V. Shetty.	“Free Radical & Antioxidant status in Rheumatoid Arthritis”, Indian Journal of Rheumatology, 2008: 3(1) 8-12
6	Dr. Ashakiran.S.	“Evaluation of effectiveness of lecture by Pre-test & Post-test analysis” is published in NTTC Bulletin , February 2009, Vol: 16.2 ,

7	Dr.Ashakiran.S S, Dr.Ramya Konareddy.	“Serum zinc levels related to protein energy malnutrition of Aganwadi schools in Kuppam Mandal, Chittor District, Andhra Pradesh” Biomedicine 2010; 30(3): 335-339,.
8	Dr.C.D. Dayanand, Dr. N.Krishnamurthy.	“Evidence of Fibrinolytic protease in the latex of S. grantii Hook ‘f’ IJBB 2010: vol. 6 No.4.P.645-655”
9	Dr. Sumathi M.E, Dr.Manjunath.M. Tembad.	“Study of Lipid Profile & Oxidative Stress in Chronic Renal Failure” Bio Med Research 2010; 21 (4): 451-56,
10	Dr. Shashidhar.K.N.	“Lipoprotein (a) and other lipid profile in patients with thrombotic stroke is it a reliable markers? Journal of Laboratory, Physicians/Jan-June 2011/Vol -3 /Issue -1
11	Dr. C.D.Dayanand, Dr.Krishnamurthy.N, Dr. Ashakiran.S, Dr.Navin	“Evaluation of biochemical parameters evincing atherogenicpotency in type 2 diabetic retinopathy”. IJBMR, 2011; 2(2): 490-496.
12	Dr.Ashakiran.S, Dr. Krishnamurthy.N, Dr. Navin.S, Dr.Sandeep Patil.	“Behavior of Serum Uric Acid and Lipid Profile in relation to Glycemic status in proliferative and non-proliferative diabetic retinopathy”. Current Neurobiology 2010; 1(2): 57-61.
13	Dr. C.D. Dayanand, Dr. N.Krishnamurthy, Dr.Ashakiran.S, Dr.K.N.Shashidhar.	“Carnitine: A Novel health factor- An overview”. IJPBR, 2011:2 (2) 79-89
14	Dr. Prabhavathi.K, Dr.Ashakiran.S, Dr.Narendra Datti.P, Dr.N.Krishnamurthy, Dr.C.D. Dayanand, Dr.Sumathi.M.E, Mrs. Mamatha Kunder.	“Study of Glutathione and ascorbic acid in case of diabetic Retinopathy “ Journal of Clinical and Biomedical sciences 2011:vol: issue 1 P13-19.

15	Dr. Ashakiran.S, Dr.Sumathi.M.E, Dr.N.Krishnamurthy	“A study of pre-analytic variables in clinical biochemistry Laboratory”. Clinical Biochemistry 2011; 44 Volume 44: 944-945,
16	Dr. Krishna Murthy N , Dr. Ashakiran , Mrs. Deena Mendez Mrs. Mamatha Kunder, Mrs.Shyamali Chatterjee, Dr.Ganesh.G, Dr. Nandini T	“OSPE as a learning & evaluation tool for biochemistry- First experience “ Journal of Clinical Biomedical Sciences, 2011: VOL I : Issue (3)P64-69
17	Dr. C.D. Dayanand, Dr.Girish bengalorkar, Dr.N.Krishnamurthy, Dr. S. Ashakiran	“Hydrogen Sulphide: a new member of Gaso transmitter, an overview article.
18	Dr. N. Krishnamurthy, Dr. Chinmoy Ghosh, Dr.Sumathi.M.E, Dr.S.Ashakiran, Dr.C.D.Dayanand	“Biological Vs Chemically induced Hepatitis- A Comparative Study of Oxidative Stress parameters “ Biomedical Research 2012; 23 (2) 289-294
19	Dr. Ashakiran.S	“Effect of Zinc Status on Alkaline phosphatase Activity in children with protein Energy Malnutrition”. IJBAMS- 2011, Vol. 1(1) Page NO.7-12.
20	Mrs. Shyamali Chatterjee, Mrs. Deena Mendez,	“A Comparative And Correlative Study of Direct LDL Assay With Friedwald’s Formula in Rural Kolar Population”. Journal of Clinical and Biomedical Sciences, Vol – 1, Issue – 4, Oct-Dec 2011 (Page No. 158-163).
21	Dr.Shashidhar K. Nagaraj, Dr.Prasad Paul, Dr.Mohan K. Kumar, Dr.Shankar Dr.Muninarayanappa, Dr.Hemalatha Anantharamaiah	“Risk Factors and the Biochemical Evaluation of Biliary Calculi in Rural Kolar, Karnataka, India: A Rural Perspective of an Urban Disease”. Journal of Clinical and Diagnostic Research, 2012- May (supp-1), Vol-6(3): 364-368

22	Dr. N. Krishnamurthy, Dr. Nandini. Takkalaki, Dr. Ashakiran.S, Dr. Shashidhar. K.N., Dr.Ganesh G., Dr. Harish R.	“A Study of Estimated Glomerular Filtration rate in Chronic Kidney Disease “. Journal of Clinical and Biomedical Sciences.2012; 2(1):22-3
23	Dr. Ganesh.G, Dr. N. Krishnamurthy , Dr. Ashakiran.S.	“A study of serum uric acid levels and its correlation with blood glucose and eGFR in Type -2 diabetes mellitus patient in rural tertiary care center in Kolar”. JCBS JUN 2012;2(2) : 79 - 86
24	Dr.Sumathi.M.E, Mrs. Mamatha Kunder, Dr. Shashidhar. K.N, Dr.N. Krishnamurthy, Dr. R. Harish	“Assay of gamma glutamyl transferase activity as an oxidative stress marker in pre and post-menopausal women” in Biomedicine: 2012; 32(3) : 394-399.
25	Dr. Ashakiran S & Deepthi R	“Fast Foods and their Impact on Health”. JKIMSU2012; 1(2): 7 – 15.

6. a. Research - Ongoing research Projects by Faculty:

Sl.No.	Name of the Investigators	Title of project
1	Dr. Krishnamurthy.N, Dr.Shashidhar.K.N	“An autopsy study of serum homocysteine and lipid profile in coronary and aortic atherosclerosis”.
2.	Mrs. Mamatha Kunder	“To Evaluate Lipid Profile, Cardiac profile and Lipoprotein (a) levels in patients with hypothyroidism.”
3	Dr. N. Krishnamurthy, Dr.Shashidhar.K.N, Dr. Balachander	“Study on genetic susceptibility of type 2 Diabetes mellitus and its complications in the Indian population”.
4.	Dr. K.N. Shashidhar	“An Epidemiological study of fluorosis toxicity in villages of Kolar and Impact assessment of intervention”

5	Dr. K.N. Shashidhar Dr. Narayana Swamy .M. Dr. Manjula B.G,	Comparitive study of intravenous iron sucrose versus oral iron ferrous ascorbate in treating mild to moderate anemia in pregnancy
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b. Ongoing research Projects by PH.D candidates:

Sl.No.	Name of the Investigators	Title of project
1.	Mrs. Deena Mendez	“ Studies on Proteases of Pathogenic Bacteria with Special emphasis on Elastase and Natural Anti Elastase Factors”
2	Mrs. Mamatha Kunder	“Studies on Serum Elastase, Elastase – Inhibitor complex in Infracation and Non-infectious Diseases”
3.	Mr. Pradeep Kumar Vegi	“A study on effect of free radicals on cellular biomolecules and role of Anti-oxidants in pulmonary tuberculosis”
4.	Mrs. U.Munilakshmi	“Innovative Biomarkers and Oxidative Stress Parameters in Type 2 Diabetes Mellitus and Acute Kidney injury: Now and the future”.

C. Ongoing research Projects by P.G students:

Sl.No.	Name of the Investigators	Title of project
3	Dr. Esha Mati, Dr.K.N.Shashidhar , Dr. Raghavendra Prasad, Dr. Gudi N.S	“A comparative study of bone related biochemical markers in post-menopausal women with and without diabetes mellitus”
4	Dr. Harish. R, Dr. Shashidhar K.N, Dr. Lakshmaiah. V, Dr. Krishnamurthy N	“HbA1c: Is it ready as a prime time tool for predicting myocardial infarction?”
5	Dr.Esha Mati , Dr.Krishnamurthy N, Dr Ashakiran S ,Dr Harish R	“Association of non HDLc, individual lipids and lipid ratios with HbA1c in diabetic dyslipidemia .”
6	Dr .Harish R, Dr.Shashidhar.K.N, Dr. Lakshmaiah V , Dr. Krishnamurthy N	“Correlation of HbA1c, blood glucose, calcium, magnesium and fasting lipid profile in myocardial infarction: A Case control study in rural Kolar district.”

7.	Dr. Nandini Takkalaki, Dr. Krishnamurthy. N, Dr Ashakiran S, Dr. Sudha. R	“Lipid profile in Dengue – Can it predict outcome?”
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d. Research projects in hand:

Sl.No.	Name of the Investigators	Title of project
1	Dr Krishnamurthy N and Dr. Sumathi.M.E.	“Study of gamma glutamyl transferase and its relation with carotid intimal thickness in metabolic syndrome”
2	Dr. Ashakiran .S	“Genetic variants and serum Lp(a) levels in diabetic retinopathy

7. Highlights :

1. CME programme was conducted on “Diabetic Nephropathy” on 3rd November 2009.

Speakers:

- a. Dr.Anita Bijoor, Prof. & HOD, Biochemistry, St. Johns Medical College, Bangalore.
- b. Dr. Raghavendra Prasad Prof. of Medicine, SDUMC, Kolar
(In place of Dr. Balachandra)

2. CME was conducted by department of Biochemistry in collaboration with department of Surgery on 26th November 2010 about “Current concepts on Pancreatitis”

The Guest speakers were:

- a. Dr. P.V.L.N. Srinivas Rao, Prof. & HOD, Department of Biochemistry, SVIMS, Tirupati gave talk on Molecular mechanisms of Pancreatitis.
- b. Dr. H.V. Shivaram, Consultant, G.J. Laparoscopic Surgeon, Columbia Asia Hospital, Bangalore, gave a talk on “Overview of Pancreatitis”

3. CME programme was conducted on 10th October 2012 in collaboration with department of Pediatrics “ Inborn Errors of Metabolism ”
 - a. Dr. Prasad K.N.V, Assoc. Professor, dept. of Pediatrics, SDUMC, gave talk on “Inborn Errors of Metabolism in Neonates”.
 - b. Dr. P.V.L.N. Srinivas Rao, Prof. & HOD, Department of Biochemistry, SVIMS, Tirupati gave talk on “Biochemical basis of Inborn Errors of Metabolism in Neonates.
 - c. Dr. Krishnamurthy Professor & HOD, Department of Biochemistry, SDUMC, gave a talk on “Screening of Newborns for Inborn Errors of Metabolism”.

8. Conferences Attended for the last 3 years

a. International Conferences Attended & Posters presented

1. Dr. Ashakiran.S., Professor, Department of Biochemistry attended 6th Congress of Asian Medical Education Association held at International Medical University, Kuala Lumpur, Malaysia from 23rd March to 26th March 2011 and presented poster titled ‘Effectiveness of mind maps in learning vitamins’.

b. National Conferences Attended:

The following Teaching faculties attended the conference in which Research

Papers and Posters were presented

1. Dr. N. Krishnamurthy attended AMBICON-2009 from 10th December to 14th December -2009 at Wardha, Maharashtra, and Oral presentation title ‘A study of Testosterone and Total Cholesterol levels in subjects who regularly workout in gym’.
2. Dr. Ashakiran.S. attended AMBICON-2009 at Warda, Maharashtra from 10th December -2009 to 14th December -2009 and Presented a paper titled “A study of risk factors associated with Gestational diabetes”
3. Dr. Krishnamurthy.N & Ashakiran.S. Attended National Conference ACBICON-2009 at Kochi, Kerala from 04-11-09 to 07-11-09.
4. AMBICON-2010 was conducted by Association of Medical Biochemists of India in Hyderabad between 12th to 14th November 2010. It was attended by

1. Dr. N. Krishnamurthy
2. Dr. Ashakiran.S.
3. Dr. Prabhavathi.K.
4. Dr. Nandini. T
5. Dr. Ganesh.G.

Posters presented by teaching Faculties on 12-11-2010 at 8a.m -10a.m in AMBICON at 18th National Conference of Association of Medical Biochemists of India, Hyderabad.

1. Dr. N.Krishnamurthy , Prof. & HOD Attended AMBICON – 2010 in Hyderabad and presented poster on “OSPE as a learning and evaluation tool for biochemistry – First experience”
2. Dr. Ashakiran.S, Assoc. Professor Attended AMBICON – 2010 in Hyderabad and presented poster on “Analysis of pre-analytical variables encountered in clinical biochemistry laboratory”
3. Dr. Ashakiran.S., Professor, department of Biochemistry attended Workshop on Integrated Teaching held at J.N. Medical College, Belgaum on 3rd and 4th March 2011
4. Dr. Ashakiran.S., Professor, Department of Biochemistry attended PSG-FAIMER Fellowship Programme held at PSGIMSR, Coimbatore from 2nd April to 8th April 2011.
5. a. Dr. N. Krishnamurthy, Prof. & HOD, attended 19th National Conference of Association of Medical Biochemists of India, ‘AMBI-TRY 2011’ held in Trichy, Tamil Nadu from 15th -18thDecember-2011 and did
 - (i)Oral presentation titled
“Age related changes in glycemic status of type diabetes mellitus patients - retrospective study
 - (ii)Chaired a plenary session

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- a. Dr. Ashakiran.S, Professor Department of Biochemistry attended 19th National Conference of Association of Medical Biochemists of India, 'AMBI- TRY 2011' held in Trichy, Tamil Nadu from 15th – 18th December -2011 did an Oral presentation on "Evaluation Of Glucose And Calcium Levels In Neonatal Birth Asphyxia"
- b. Dr.Sumathi.M.E, asst. professor department of biochemistry attended 19th national conference of association of medical biochemists of India, 'ambi-try2011' held in Trichy, Tamil Nadu from 15th – 18th December-2011 did an oral presentation on "Role Of Gamma Glutamyl Transferase As An Oxidative Stress Marker In Pre And Post-Menopausal women"
6. Dr. Ashakiran.S, Professor of Biochemistry attended the 9th Asia Pacific Medical Education Conference (9th APMEC) at National University Singapore (NUS), held between 11th to 15th January 2012 and presented a poster titled "One minute paper – A thinking centered assessment tool.
7. Dr. N. Krishnamurthy, Professor and HOD, Biochemistry attended 1st International Conference on Research and Training in Health Professions Education -2012, ICON-RIPE 2012 Conference at Jawaharlal Nehru Medical College, Belgaum between 17th to 19th February.
8. Dr. Ashakiran. S, Professor Biochemistry attended 1st International Conference on Research and Training in Health Professions Education - 2012, ICON-RIPE 2012 Conference at Jawaharlal Nehru Medical College, Belgaum between 17th to 19th February and Presented a poster titled "Focus on Future: What beyond MBBS".

Posters presented by Post Graduate students on 13-11-2010 at 8a.m - 10a.m in AMBICON at 18th National Conference of Association of Medical Biochemists of India, Hyderabad.

1. Dr. Prabhavathi.K – A Study of Oxidative Stress parameters, Glycated Hemoglobin and lipid Profile in Diabetic retinopathy.
2. Dr. Nandini.T- "Study of eGFR in chronic kidney disease"
Dr. N. Krishnamurthy and Dr. Ashakiran.S was judge for award paper presentation.

Posters presented by Post Graduate students:

1. Dr. Ramani Nisha Subhash Chandra presented poster titled “Calculated Glycated Hemoglobin – myth or reality” attended 19th national conference of association of medical biochemists of India, ‘Ambi-Try 2011’ held in Trichy, Tamil Nadu from 15th – 18th December -2011, presented poster titled “a study of serum uric acid levels and its correlation with blood glucose and eGFR in type 2 diabetes mellitus patients at a rural tertiary care Centre in Kolar.
2. Dr. Ganesh.G. attended 19th national conference of association of medical biochemists of India, ‘Ambi-Try 2011’ held in Trichy, Tamil Nadu from 15th – 18th December -2011, presented poster titled “a study of serum uric acid levels and its correlation with blood glucose and eGFR in type 2 diabetes mellitus patients at a rural tertiary care Centre in Kolar”.
3. Dr. Eshamati attended 19th national conference of association of medical biochemists of India, ‘Ambi-Try 2011’ held in Trichy, Tamil Nadu from 15th – 18th december-2011,presented poster titled “Dyselectrolytemia in Acute Myocardial infarction”
4. Dr. Harish. R, attended 19th national conference of association of medical biochemists of India, ‘Ambi-Try 2011’ held in Trichy, Tamil Nadu from 15th – 18th december-2011, presented poster titled “hypokalemia in snake bite: a retrospective study in rural Kolar district, Karnataka”

9. Dissertations – completed

1	Dr.Ganesh.G , Dr. Krishnamurthy, Dr. Ashakiran , Dr.Shashidhar.K.N,	“ Study of serum albumin, Lipid profile & Thyroid profile in Chronic kidney disease, - A cross sectional study”
2	Dr. Nandini Takkalaki, Dr. Krishnamurthy. N, Dr. Raveesha	“A study of highly sensitive C reactive protein and serum uric acid in coronary artery disease”

Dissertations – ongoing

1.	Dr. Esha Mati, Dr. K.N. Shashidhar, Dr. Raghavendra Prasad, Dr. Gudi N.S	“A comparative study of bone related biochemical markers in post-menopausal women with and without diabetes mellitus”
2.	Dr .Harish R, Dr.Shashidhar.K.N, Dr. Lakshmaiah V , Dr. Krishnamurthy N	“Correlation of HbA1c, blood glucose, calcium, magnesium and fasting lipid profile in myocardial infarction: A Case control study in rural Kolar district.”

10. Any Other:

CMEs & Workshops Attended by Faculties and P.G students

1. Dr. Ashakiran.S. & Dr. Sumathi.M.E. 16th Training Course on Immunodiagnosics for infectious Diseases at Mahatma Gandhi Institute of Medical Sciences, Maharashtra, 30th Jan-2010 to 6th Feb-2010
2. Dr. Shashidhar.K.N, attended NABL training program on 10th June 2010 at Bangalore
3. Dr. N. Krishnamurthy, Professor and Dr. C.D. Dayanand, Associate Professor, Department of Biochemistry has attended SASAT International Conference on 10th and 11th December 2010 at Le Meridian Hotel, Bangalore.
4. Dr. Ashakiran.S, Dr. Sumathi.M.E, Mrs. Deena Mendez, Mrs. Mamatha Kunder, Mrs. Shyamali Chatterjee, Attended the Medical Education Workshop programme at SDUMC, Kolar on 9th to 12th November 2009.
5. Dr. Ashakiran.S Professor Department of Biochemistry attended Zonal CME of Dr.NTR UHS at PESIMSR, Kuppam on 29-5-2011 and gave a talk on - Inborn errors of Phenylalanine metabolism.
6. Dr. Krishnamurthy. N, Professor and HOD and Dr. Ashakiran.S, Professor attended C.M.E on Advances in Biochemistry- Focus on Clinical and Molecular Diagnostics on Saturday 27th August, 2011 at JSS Medical College, Mysore.
7. Dr. Ashakiran.S, Professor of Biochemistry attended Workshop on DNA Diagnostics – SGPGI, at Lucknow between 24th to 26th November 2011.
8. Dr. Sumathi.M.E, Asst. Professor Department of Biochemistry attended CME on “Biochemical Investigations as Answers to Clinical Questions” conducted at M. S.Ramaiah Medical College on 1st December 2011.

9. Dr. Ashakiran.S, Professor of Biochemistry attended the Basic Workshop on “Medical Education Technologies “held at St. John’s Medical College, Bangalore between 27th March to 29th March 2012.
10. Dr. Ganesh.G, Post graduate student of Biochemistry attended Winter Symposium on “Cellular and Molecular Medicine” at Christian Medical College, Vellore between 5th January to 7th January 2012.
11. Dr. Ganesh.G, Dr. Harish.R and Dr. Esha Mati, Post Graduate students of Biochemistry attended Workshop on PCR and Western Blot Technique at Annamalai University, Chidambaram between 21st January to 22nd January 2012.
12. Dr. Ganesh.G, Dr. Nisha Ramani, Dr. Nandini Takkalaki, Dr. Harish.R and Dr. Esha Mati, Post Graduate students of Biochemistry attended a Case on “Newer Biomarker in Anemias” held at St. John’s Medical College, Bangalore on 26th February 2012.
13. Dr. Ganesh.G, Dr. Nandini Takkalaki, Dr. Harish.R and Dr. Esha Mati, Post Graduate students of Biochemistry attended National Research methodology Workshop cum Seminar held at JIPMER, Pondicherry from August 22nd to August 25th 2012.