



BHAVAN'S VIVEKANANDA COLLEGE
OF SCIENCE, HUMANITIES AND COMMERCE
(Accredited with 'A' Grade by NAAC)
Autonomous College – Affiliated to Osmania University

VALUE ADDED COURSES LIST 2015-2016

Sl.No.	Course Name
1	Softskills
2	Softskills (CRT)
3	Computer Skills
4	Presentation Skills
5	Edge in Competitive Exams
6	Skills in MS-Excel
7	Multimedia
8	Proteomics

Bhavan's Vivekananda College
of Science, Humanities and Commerce
Sainikpuri, Secunderabad - 500094
(Accredited with 'A' Grade by NAAC)
Autonomous College-Affiliated to Osmania University

Softskills

Organised by
(Career Guidance & Placement Cell)



2015-16
(Soft skills) (PG)

**Bhavan's Vivekananda College of
Science, Humanities & Commerce,
Sainikpuri, Secunderabad - 500 094.**

506/BVC/Contract 2015

Date: 30th Jul'15

To
The Vice-Chairman
BVB Kendra
Sainikpuri.

Sub: Personality Development and Communication classes-reg.

As the Postgraduate students of final year are on the verge of going for placements/Higher studies, It is proposed to conduct softskill classes for them on various aspects to increase their employability after completion of their course.

2. Mrs.Sudha Gorthi is Professional Trainer on personality development and communication. She has been taking softskill classes in Bhavan's Vivekananda College, Sainikpuri since 2008. Hence, she is requested to continue to take classes for PG students for this year also. (2015 -16). The details of the programme schedule is enclosed for your perusal please.

Particulars of class :

S.No.	Name /Particulars	Class	Duration	Fee charged	Amt.Payable
1.	Mrs.Sudha Gorthi	M.Sc. a.Biochemistry b.Microbiology, c.Comp.Sc. M.Com.	20/7/2015 to 31/8/2015	120 sessions @650/- per hour	Rs.78000/-

3. Payment Details:

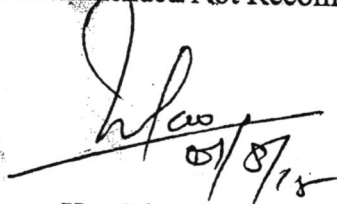
- a. I installment cheque for Rs.39,000/- (Rupees Thirty six thousand only.) may be issued in favour of Mrs.Sudha Gorthi and amount may be debited towards Students Welfare A/c. The Cheque may be issued on 10th Aug' 2015.
- b. II Installment cheque for Rs.39,000/- (Rupees Thirty four thousand five hundred only.) may be issued on 1st Sep' 2015.

Yours Sincerely,



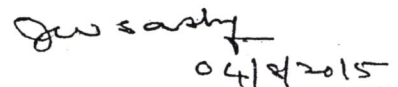
PRINCIPAL

Recommended/Not Recommended



Hon. Director ,BVC

APPROVED/~~NOT APPROVED~~


04/8/2015

Vice-Chairman
BVB Sainikpuri Kendra.

Softskills

Personality Development and Communication classes

Syllabus:

1. Preparing for interviews, facing interviews, reviewing performance, participating in mock interviews.
2. How to build a effective resume-
3. Interviews- HR interview skills
4. Communication- group communication- skills
5. Presentations – Preparing successful presentations, thinking about audience, making effective use of visual aid, Delivering presentation.

Course Outcomes:

1. Effectively communicate through verbal/oral communication and improve the listening skills
2. Actively participate in group discussion / meetings / interviews and prepare & deliver presentations
3. To develop and nurture the soft skills of the students through individual and group activities.

Bhavan's Vivekananda College
of Science, Humanities and Commerce
Sainikpuri, Secunderabad - 500094
(Accredited with 'A' Grade by NAAC)
Autonomous College-Affiliated to Osmania University

Softskills (CRT)

Organised by
(Career Guidance & Placement Cell)

To

The Principal
Bhavan's Vivekananda College
of Science, Humanities and Commerce,
Sainikpuri, Secunderabad.

Sub: Proposal for conducting - Enhancing Employability skill - Training module - Final Years - Reg

Dear Sir

We would like to bring to your kind notice that the Career Guidance and Placement Cell (CGPC) of our college has conducted Placement Eligibility Test (PET) for all the final year students of the college 20th June 2015. The PET paper consisted of three sections viz aptitude, email writing and personal introduction. 776 students have appeared for the test and 526 students have qualified for the test, CGPC strongly feels there is a need for skill development (for placements) of those 250 students who could not qualify the PET.

In this regard we have approached the following agencies for providing the training module

1. T.I.M.E
2. Talent Beacon
3. Neemus Education
4. Disha Training and Consultancy services
5. Stratadigm Education and Training Ltd

Comparative Statement for Training Module of Enhancing Employability skills

	TIME	Talent Beacon	Neemus Education	Disha Training and Consultancy services	Stratadigm Education and Training Pvt Ltd.
Cost	Rs.1800 per student	Rs.2700 per student	Rs.1950 per student	Rs.1800 per student	Rs.1750 per student
No of Hours	60	60	26	60	60
No of students per Batch	60	60	60	60	60
Effective Cost per Student hour	30	45	75	30	29.16
Additional Benefit	Mock Drive	-	-	-	-

[Handwritten signature]

[Handwritten signature]

Based on the discussions with them, cost associated with the programme and the track record we would like to recommend T.I.M.E for the training module. The college has to provide infrastructure facilities for conducting the programme. In this regard we would like to suggest that we can charge Rs. 100 per student in order to meet our infrastructure and other expenses.

Hope you will do the needful.

Thanking You

With Regards

for
Seema Ghosh
Mrs. Seema Ghosh
Placement Co-ordinator.

Sir,
Recommended for offering
training contract to TIME as
recommended by CGPC. Rs 100
will be charged per student
23/7/15

Sw
Accepted. We could
have our core gp (3
to be associated _{pus}
for the future.
29/7

ANNEXURE 2 :**Course Structure for the Student Development Program (SDP)**

PROGRAM COVERAGE - (15 SESSIONS)	Approximate no. of sessions
Quantitative ability: <ul style="list-style-type: none">• Numbers, Number Systems• Percentage, Profit and Loss, Partnership• Average, Mixtures and Alligations;• Simple Interest & Compound Interest• Time and Work & Time and Distance	5
Verbal Ability: <ul style="list-style-type: none">• Paragraph formation• Sentence Correction• Reading Comprehension	3
Reasoning: <ul style="list-style-type: none">• Series, Analogies, Odd Man Out, Coding-Decoding• Blood Relations, Direction sense, Symbols & Notations• Distribution, Binary Logic, Puzzles• Cubes, Venn Diagrams	4
Evaluation mechanism: <p>The mock tests will help the students analyze their performance in each area.</p> <ul style="list-style-type: none">• Comprehensive (Company Specific / General)• Doubt Clarifying Sessions on the tests taken	2
Basic Communication Skills: <ul style="list-style-type: none">• Writing Skills - Sentences, Paragraphs, Outlines etc.; Resumes and Applications; E-mail writing and other Correspondence - Formal and informal letters	1
Value Added Services: <ul style="list-style-type: none">• Workshop on industry scenario and employability (the required skills to gain a better job).	
Note: Each session comprises of 1:30 hours to 1:45 hours Maximum no. of hours spent on the program would be 30 hours	

Course Outcomes:

1. Be prepared for the personal interview through mock interviews while being aware of the various kinds of interviews.
2. Develop thinking ability and polish his expression in group discussions.
3. Students will demonstrate effective oral and written communication skills in the professional context.
4. Students will enhance their logical reasoning and qualitative ability techniques.

Bhavan's Vivekananda College
of Science, Humanities and Commerce
Sainikpuri, Secunderabad - 500094
(Accredited with 'A' Grade by NAAC)
Autonomous College–Affiliated to Osmania University

Computer Skills

Organised by
(Department of Chemistry)

To

1/7/2015

The Principal

Bhavans Vivekananda College

Sainikpuri

Secunderabad

Subject: Consent to start Value added course on computer skills

Respected Sir

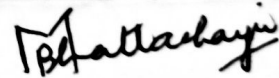
The departments of Life sciences, BBA and BA are keen on introducing a value added course on computer skills for their first year students for the academic year 2015-16. The course will be dealt by the department of computer sciences and department of chemistry.

We seek your kind consent to start the course as these mentioned programs does not have any course on computers in their curriculum.

The Value added course will be continued in 2016 for the BA 2nd year students. The life sciences and BBA students will be discontinuing the course, as their respective BOS members have suggested to start computer skills, Bio-informatics, Cheminformatics in their regular curriculum.

Thanking you

Yours sincerely



Dr. Madhumita Bhattacharjee

Head of the Department
Department of Chemistry
Jharatiya Vidya Bhavan's Vivekananda College
Sainikpuri, Secunderabad - 500 094.



(Dr. Y. ASHOK)
PRINCIPAL
Bhavan's Vivekananda College of Science
Humanities & Commerce
Sainikpuri, R.R. (Dist.)

Syllabus for Computer Skills

First Year B.Sc.

Time allotted: 60 hours.

Goal: Student should be fluent with Word Processing, Slideware, Graphics program, and Spreadsheet program.

1. Word: 10 hours. Prepare a well-formatted document (in PDF) of 20-30 pages that has
 - a. Header with short title
 - b. Footer with page number
 - c. Table of Contents with 2-3 levels of headings and sub-headings
 - d. Table of Figures with 5 or more items; Figures to imported from web or camera
 - e. References in form of EndNote
 - f. Footnotes to explain meanings of words or acronyms.
 - g. Include the author's resume'
2. Slideware: 15 hours. Prepare
 - a. A slideshow for a talk
 - i. At least 15 slides
 - ii. Each slide numbered, with consistent formatting
 - iii. At least 2 simple animations
 - b. A Poster of size 90 cm X 120 cm
3. Graphics Program: 15 hours. Prepare a handout to explain synthesis of a chemical compound.
4. Spreadsheet Program: 20 hours. Analyze data from a Table with at least 100 rows to prepare a report that has at least:
 - a. One histogram
 - b. One bar or line graph showing error bars
 - c. One scatter plot showing line and equation of regression

Second Year B.Sc.

Time allotted: 60 hours.

Goal: Student should be familiar with Database (Access) and Bioinformatics Programs, and R or setting up a simple website.

1. Database management: 20 hours. Set up an Access database with at least
 - a. 3 tables
 - b. 3 forms
 - c. 6 queries
 - d. 6 reports
2. Bioinformatics: 30 hours. Theory and web-based programs related to
 - a. Genomics
 - b. Transcriptomics
 - c. Proteomics
3. R: 10 hours. Report data and analyze using descriptive statistics.
4. Website: 10 hours. Set up a website on Google Sites or similar free platform. Site should have at least 4 pages with links, text, graphics.



Computer Skills

First Year B.Sc.

At the end of the course student's will be able to:

CO1: Prepare a well formatted document with headers, footers, tables and figures.

CO2: Prepare and customize a slideshow, animations and poster with consistent formatting.

CO3: Develop Graphics applications.

CO4: Analyze data from the Table and create a histogram, bar, line and scattor plot graphs.

Second Year B.Sc.

At the end of the course student's will be able to:

CO1: Create tables, forms, queries and reports using Access Database.

CO2: Develop web based programs related to Genomics, Transcriptomics, Proteomics.

CO3: Import data and analyze using descriptive statistics.

CO4: Create a website using Google Sites with links, text and graphics.

Bhavan's Vivekananda College
of Science, Humanities and Commerce
Sainikpuri, Secunderabad - 500094
(Accredited with 'A' Grade by NAAC)
Autonomous College–Affiliated to Osmania University

Presentation Skills

Organised by
(Department of Management Studies)



July 2nd 2015

To,
The Principal,
Bhavan's Vivekananda College,
Sainikpuri, Secunderabad.

Sub: Proposal for conducting Value Added Courses for BBA students for the academic year 2015-16.

Sir,

This is to bring to your kind notice that the Department of Management Studies would like to conduct Value Added Courses for all BBA students for the academic year 2015-16. The following are the various courses proposed along with duration & fees:

Course Code	Name Of The Course	Duration (Classes)	Faculty In charge	Class/Year	Fees (Rs.)
MGT01	PRESENTATION SKILLS	45	Dr. Kavitha Lal Ms.Suvarchala Rani	I YEAR	1500
MGT02	ECE (Edge in Competitive Examinations)	60	Dr. MVS Mahendra Mr. Sivaram Naidu	II YEAR	2500
MGT03	MS EXCEL SKILLS	30	Mrs. Padma Priya	III YEAR	1000

Value added courses incharge: Dr. Kavitha Lal.

Kindly permit us to conduct the same.

Thanking You,

Yours Sincerely,

N. S. Chakravarthy

Dr. N. S. Chakravarthy
Head, Department of Management Studies.

Sr,
Recommended for
commencement of course.

Agreed.
[Signature]
29/7



Bhavan's Vivekananda College
of Science, Humanities & Commerce
Sainikpuri, Secunderabad – 500094
Autonomous College - Affiliated to Osmania University
(Accredited with 'A' grade by NAAC)

Value Added Course: Presentation Skills

This program is exclusively designed for students to build their presentation skills. The main idea behind the program is to improve the language, communication as well as presentation skills of the students.

Duration of the program: 30 classes.

Objectives of the Course:

- 1) To provide knowledge for creating structure and plan a presentation.
- 2) To understand the effective utilization of visual aids for a good presentation.
- 3) To learn to use non verbal communication.
- 4) To improve the overall image and etiquette.

Syllabus:

1. Preparation of presentation a) what, how, for whom, structure, principles and presentation technique
b) Preparation of presentation II: business presentation specifications
2. Nonverbal communication during presentation: how to manage stress, body language, activating the audience with nonverbal communication
3. Verbal communication: ice breakers, usable and unsuitable phrases
4. Communication skills: listening, empathic reaction, how to question, attracting the audience attention
5. Case Study analysis (Oral Presentation)
6. Work with audience – ice-breaking sessions, get them in the mood, work with emotions, visualization tools
7. Improvisation of presentations and Extempore presentations
8. Feedback – appreciation and critique
9. Image and etiquette

The components of the program are:

Theory: 10 Classes

Planning and preparation

- Collecting and Collating Data for the presentation
- Designing the Presentation structure
- Use of visual aids
- Handling Audience
- Conduct during presentation
- Elementary Body Language, Body Postures and Poise

Practicals: 20 classes

- ❖ Oral Presentations- Prepared (4 classes)
- ❖ Oral Presentations- Extempore (4 classes)
- ❖ Presentations (General)- Powerpoint (4 classes)
- ❖ Presentations (Management) (4 classes)
- ❖ Written examination and Final Presentation (4 classes)
- ❖ Review

Course Outcomes:

At the end of the course students will be able to

1. Plan and make oral, extempore and power point presentations
2. Utilize verbal and non verbal communication, etiquettes and visual aids for presentations
3. Apply general and business presentation skills
4. Manage stress and use appropriate body language for presentations
5. Use ice breaking techniques for effective communication

Bhavan's Vivekananda College
of Science, Humanities and Commerce
Sainikpuri, Secunderabad - 500094
(Accredited with 'A' Grade by NAAC)
Autonomous College–Affiliated to Osmania University

Edge in Competitive Exams

Organised by
(Department of Management Studies)



July 2nd 2015

To,
The Principal,
Bhavan's Vivekananda College,
Sainikpuri, Secunderabad.

Sub: Proposal for conducting Value Added Courses for BBA students for the academic year 2015-16.

Sir,

This is to bring to your kind notice that the Department of Management Studies would like to conduct Value Added Courses for all BBA students for the academic year 2015-16. The following are the various courses proposed along with duration & fees:

Course Code	Name Of The Course	Duration (Classes)	Faculty In charge	Class/Year	Fees (Rs.)
MGT01	PRESENTATION SKILLS	45	Dr. Kavitha Lal Ms.Suvarchala Rani	I YEAR	1500
MGT02	ECE (Edge in Competitive Examinations)	60	Dr. MVS Mahendra Mr. Sivaram Naidu	II YEAR	2500
MGT03	MS EXCEL SKILLS	30	Mrs. Padma Priya	III YEAR	1000

Value added courses incharge: Dr. Kavitha Lal.

Kindly permit us to conduct the same.

Thanking You,

Yours Sincerely,

N. S. Chakravarthy

Dr. N. S. Chakravarthy
Head, Department of Management Studies.

Sr,
Recommended for
commencement of course.

Agreed.
[Signature]
29/7

Value Added Course: ECE (Edge in competitive Examinations)

Objective: This course is exclusively designed for Students to equip them on fundamental concepts in quantitative aptitude, mental ability, verbal and non-verbal reasoning and also English grammar and comprehension.

Duration of the program: 30 classes.

Syllabus

Number Systems.

LCM & HCF.

Profit, Loss & Discount.

Percentages.

Speed, Time & Distance.

Time & Work.

Simple & Compound Interest.

Ratio & Proportion

Averages

Quadratic & Linear Equations

Alphabet series,

Blood relations,

Directions,

Analogy,

Statements & Assumptions,

Syllogism,

Assertion & reasons,

Puzzle tests etc., were discussed in detail in Reasoning.

Course Outcomes:

- Students were taught fundamental concepts in quantitative aptitude, mental ability, verbal and non-verbal reasoning and also English grammar and comprehension.
- Students will be able to learn Number series, discounts and percentage which will be useful for preliminary phase of all Government exams, CAT, MAT.

- Blood relation topic tests the analytical skills of the students and how one can approach the solution of logical problems with the help of diagrams instead of calculations
- Syllogism able to help the students to acquire logical thinking in solving.

Bhavan's Vivekananda College
of Science, Humanities and Commerce
Sainikpuri, Secunderabad - 500094
(Accredited with 'A' Grade by NAAC)
Autonomous College-Affiliated to Osmania University

Skills in MS-Excel

Organised by
(Department of Management Studies)



July 2nd 2015

To,
The Principal,
Bhavan's Vivekananda College,
Sainikpuri, Secunderabad.

Sub: Proposal for conducting Value Added Courses for BBA students for the academic year 2015-16.

Sir,

This is to bring to your kind notice that the Department of Management Studies would like to conduct Value Added Courses for all BBA students for the academic year 2015-16. The following are the various courses proposed along with duration & fees:

Course Code	Name Of The Course	Duration (Classes)	Faculty In charge	Class/Year	Fees (Rs.)
MGT01	PRESENTATION SKILLS	45	Dr. Kavitha Lal Ms.Suvarchala Rani	I YEAR	1500
MGT02	ECE (Edge in Competitive Examinations)	60	Dr. MVS Mahendra Mr. Sivaram Naidu	II YEAR	2500
MGT03	MS EXCEL SKILLS	30	Mrs. Padma Priya	III YEAR	1000

Value added courses incharge: Dr. Kavitha Lal.

Kindly permit us to conduct the same.

Thanking You,

Yours Sincerely,

N. S. Chakravarthy

Dr. N. S. Chakravarthy
Head, Department of Management Studies.

Sr,
Recommended for
commencement of course.

Agreed.
[Signature]
29/7

Value Added Course: MS Excel

This program is exclusively designed for students to equip them with the requisite Knowledge on Excel.

Duration of the program: 30 classes.

Syllabus

1. Basic introduction to Excel
2. Basics of Excel
3. Formatting worksheets ■
4. Formulas in Excel
5. Relative, Absolute, Mixed cell references : >,< ,= operators
6. Different types of Functions in Excel
7. Different types of charts in Excel
8. Linking between sheets
9. Protection of worksheets
10. Give permission to Read/Write some area of the sheet
11. Filters and Sorting(Advanced Filters)
12. Pivot Tables and Pivot Charts
13. Data Validation
14. Conditional Formatting
15. Macros
16. What if analysis
 - Scenario Manager
 - Goal seek
 - Data Table
17. Lookup(), vlookup(), hlookup() functions
18. Exchange (copy, import, export) data between Excel and Access

Course Outcomes:

At the end of the course students will be able to:

- Create, open, view , save and print a workbook.
- Modify a worksheet and workbook.
- Work with cell references.
- Learn to use functions and formulas.
- Create and edit charts and graphics.
- Filter and sort table data.
- Work with pivot tables and charts.
- Import and export data.

Bhavan's Vivekananda College
of Science, Humanities and Commerce
Sainikpuri, Secunderabad - 500094
(Accredited with 'A' Grade by NAAC)
Autonomous College-Affiliated to Osmania University

Multimedia

Organised by
(Department of Computer Science)



Department of Computer Science
Request for Approval

Dt: 29/12/2015

To
The Principal,
Bhavan's Vivekananda College,
Sainikpuri,
Secunderabad.

Subject: Request for conducting value added course (Multimedia)

Respected Sir,

The Department of Computer Science want to conduct a value – added course "Multimedia" for all U. G course students. The main objective of this program is to teach basic concepts of Multimedia and make them to work on real time applications. Duration of the course is 1 Month.

The schedule of the program is enclosed for your approval.

Thanking you,

Yours Sincerely

KVB
(K V B Saraswathi Devi)
(H.O.D, Department of Computers, BVC)

permitted

Y. Ashok
Prof. Y. Ashok
(Principal)

Y. Ashok
02/1/16.



Circular

Bhavan's Vivekananda College

Department of Computer Science

Value – Added course

Department of Computer Science is organizing Multimedia a value added course in Multimedia 2D Animation which includes the applications as Adobe Photoshop, Page Maker, Coral – Draw and Adobe Flash.

- Course duration 30 days
- Course fees Rs 2000/-
- Last date for Registration: 8th January 2016
- Batch size: 20 members
- Timings: 2:30 pm to 3:30 pm/ 3:30 pm to 4:30 pm

For Registrations contact

R Manohar

Programmer, Dept of Computer Science

In BA(Mass Communication) Lab MBA Block


Further details contact:

S Jayalakshmi

Lecturer, Dept of Computer Science


KVB. Saraswathi Devi

Head, Department of Computer Science


Prof. Y. Ashok
Principal



Bhavan's Vivekananda College

Value-Added Course

Multimedia - Syllabus

Course Objective:

- To discuss about the introduction of photoshop application and tools.
- To illustrate different graphical and filter effects.
- To explain various image effects with samples.
- To construct logo, brochure, banner and posters.

Photoshop: Introduction on Graphic design , photoshop tools - canvas , layer , saving methods. Selection tool, Move tool, Marquee tool, Lasso Tool, Quick Selection Tool, Pen Tool zoom and hand tool, Brush tool, Fill and gradient tool, Shape tool, History brush, Art history brush, Eraser, Healing tools, Dodge tools, Clone tool, Blending options, Blending modes, Adjustment Hue and Saturation effects, Filters.

Effects and samples: Abstract Image, Bokeh, Double Exposure, Text effects, Dispersion effect, Water effect, banner design, Tattoo design, animation 3d text and Gif creation.

Coral Draw: Application window, tool bar, effects and logo creation.

Adobe Flash: application, import image, create animation and slide show.

PageMaker: Canvas, layer, tools, designing poster, Brochure and sample projects

COURSE OUTCOMES:

- At the end of the course students will be able to:
- Develop simple graphical text based and image based applications.
- Implement retouching and animation effects for existing images.
- Create and publish simple logos and gif images.
- Apply coral draw and PageMaker tools to develop simple projects

Bhavan's Vivekananda College
of Science, Humanities and Commerce
Sainikpuri, Secunderabad - 500094
(Accredited with 'A' Grade by NAAC)
Autonomous College–Affiliated to Osmania University

Proteomics

Organised by
(Department of Microbiology)



To
The Principal
Bhavan's Vivekananda College
Sainikpuri
Secunderabad


Sub: Value added course on Proteomics- Department of Microbiology

Respected Sir,

The Department of Microbiology would like to offer a value added course on Proteomics to post graduate students in collaboration with Sandor Life sciences Pvt Ltd . Course includes both theory and practical training. This course not only exposes students to practical skills, but also gives scope for increasing their job potential.

The details of the programme is enclosed for your perusal. Looking forward for your encouragement.

Thanking you


Dr. K. Anuradha

Head, Department of Microbiology

Permitted
2/12



Value added course on Proteomics

Objectives

1. Basic foundation in Protein structure and Function
2. Study on Protein - Protein interactions
3. Exposure to protein separation techniques using electrophoresis and mass spectrometric methods
4. Description of Protein identification methods like Peptide mass fingerprinting (PMF), Electro blotting and sequencing, homology modeling

Unit I

Protein structure – Different levels of protein structure, Protein Folding and unfolding, Active sites and effects of pH, temperature, substrate concentrations, inhibitors and activators on activity. Protein functions ,e.g. structural, storage, transport, hormonal, receptor, contractile, defensive, enzymatic. Protein interaction in cell signaling neurotransmitters and membrane channel opening and closing.

Unit II

Separation techniques – 2-D gel and polyacrylamide gel electrophoresis (PAGE)
Biological mass spectrometry -MALDI-MS, ESI-MS, LC-MS/MS Finger printing.
Protein identification – Peptide mass fingerprinting (PMF), Electro blotting and sequencing
Determination of 3-D structures by x-ray crystallography, NMR and homology modeling.

Recommended Books

Principles of Protein structure, Schultz, G. E., and Schirmer, R. H. Dr. ShaktiSahi
Proteomics, Daniel C. Leibler
Microbial Proteomic, Marjo Poutanen
Proteins: Structures and Molecular Principles (2d ed.), TE Creighton
Organic spectroscopy, William Kemp
Proteome Research: Two-Dimensional Gel Electrophoresis and Detection Methods (Principles and Practice), T. Rabilloud (Editor), 2000, Springer Verlag
Introduction to Protein Architecture: The Structural Biology of Proteins, M.Lesk, 2001, Oxford University Press

Outcomes:

1. Acquaint with fundamentals of Protein structure and Function
2. Knowledge on protein – protein interactions
3. Practical knowledge in protein separation techniques
4. Awareness on Protein identification methods