



**K.L.E. SOCIETY'S
BASAVAPRABHU KORE
ARTS, SCIENCE AND COMMERCE COLLEGE, CHIKODI**
[Accredited at 'A' grade by NAAC with CGPA of 3.26 during third cycle]

**UG Department of Commerce
CERTIFICATE COURSE IN TALLY ACCOUNTING [2019-20]**

OBJECTIVES

This course is designed to impart knowledge regarding concepts of Financial Accounting Tally is an accounting package which is used for learning to maintain accounts. This course is useful for Commerce students to get placements in different offices as well as companies in Accounts departments.

Faculty of the department involved in the preparation of syllabus

| Sl. No | Name | Designation |
|--------|--------------------------|---------------------|
| 1 | Prof.B.S.Mali | Associate Professor |
| 2 | Prof.Laxmikant Nayak T.O | Assistant Professor |
| 3 | Prof.N.B.Patil | Assistant Professor |
| 4 | Miss.S.C.Hitni | Lecturer |
| 5 | Miss.S.M.Mirje | Lecturer |

Subject Expert:

| Sl. No | Name | Designation | Address |
|--------|-----------------|---------------------|---------------------------------------|
| 1 | Shri. N.B.Patil | Assistant Professor | KLE' Society's B.K.College,Chikodi |
| 2 | Shri.V.M.Bagi | Lecturer | KLE' Society's B.K.College,Chikodi |

MODULE

| Unit | Topics | Components | Hours |
|------|-------------------------------|---|-------|
| 1 | Accounting Information System | Introduction, Basics of Accounting, and Introduction to Computerized Accounting Information Systems. Difference between Manual and Computerized Accounting Information Systems, | 10 |
| 2 | Tally 9 | Introduction, features of tally 9.1 versions, configuration of tally, tally screens and menus, creation of company, creation of group, Editing and deleting groups, creation of ledgers, Editing and deleting ledgers. Introduction to vouchers, voucher entry, payment voucher, receipt voucher, contra voucher, journal voucher, Editing and deleting vouchers. Problems on Accounts only method and Balance Sheet | 11 |
| 3 | Introduction to Inventories: | Creation of stock categories, Creation of stock groups, Creation of stock items, configuration and features of stock items, Editing and deleting stocks, usage of stocks in voucher entry. Purchase order- stock vouchers, sales order. Introduction to cost, creation of cost category, Problems on Accounts with Inventory method and Balance Sheet | 10 |
| 4 | Introduction to cost | Creation of cost category, creation of cost centers, Editing and deleting cost centers & categories, usage of cost category & cost, centers in voucher entry, budget & control, Editing and deleting budgets, generating & printing reports in detail & condensed format. Problems on Accounts with Inventory method and Balance Sheet | 11 |
| 5 | Generation of Reports: | Day books- Balance sheet, Trial balance, Profit & loss account, ratio analysis, cash flow statement, fund flow statement, cost center report, inventory report, and bank reconciliation statement. | 10 |

| Session | Hours |
|--------------------|--------|
| Theory sessions | 26 hrs |
| practical sessions | 26 hrs |
| Total | 52 hrs |

EXAMINATION: After the completion of the teaching (both theory and practical sessions), an examination will be conducted for 2 Hours. The question paper is for 40 marks. Result will announced after the evaluation and the certificate will be issued to each student after successful completion of the course

Assessment Components:

| Sl. No. | Internal Components | Remarks |
|---------|---------------------|----------|
| 1 | Internal Assessment | 40 Marks |

COURSE OUTCOMES:

- Session started with the introduction of Tally ERP-9 with its importance & features.
- Participants got practical exposure of this software while solving examples with the help of trainer.
- At the end of the programme, students were found confident towards using Tally ERP-9 software while solving practical problems. They were found trained in creating/selecting any company/group creating.
- Various concepts pertaining to formation of company & creation of different accounts under Tally ERP-9 was discussed in detail.
- A detailed lecture on accounts and voucher entries were discussed along with practice session on individual basis.
- The students were provided with the thorough knowledge about the Financial transactions involved in cost centre, Taxation, which comprised of TDS, VAT.

Date: 03/11/2019



(Prof/Laxmikant Nayak T.O)
 Course Coordinator & HOD
 HEAD
 Department of Commerce



K.L.E. Society's
BASAVAPRABHU KORE ARTS, SCIENCE AND COMMERCE COLLEGE, CHIKODI

(Accredited at 'A' Grade by NAAC with CGPA of 3.26 in 3rd Cycle)

College with Potential for Excellence (CPE)

DEPARTMENT OF CHEMISTRY

COURSE STRUCTURE AND SYLLABUS
Of
CHEMISTRY VALUE ADDED CERTIFICATE COURSE

Value Added Certificate course
in
“Chemdraw Software and It's Appliaction”

With effect from academic year 2019-20 onwards

List of staff Members:

| Sl. No. | Name | Designation | Qualification |
|---------|----------------------|---------------------|------------------|
| 1 | Prof. U. R. Rajput | Principal | M.Sc |
| 2 | Prof. S. B. Vanjire | Associate Professor | M.Sc |
| 3 | Prof. Raju | Associate Professor | M.Sc. |
| 4 | Prof. S. M. Patil | Assistant Professor | M.Sc, Ph.D, B.Ed |
| 5 | Prof. P. M. Palankar | Lecturer | M.Sc. B. Ed |
| 6 | Prof. G. B. Jambagi | Lecturer | M.Sc. B. Ed |
| 7 | Prof. S. D. Kotabagi | Lecturer | M.Sc. B. Ed |
| 8 | Prof. S. S. Latthe | Lecturer | M.Sc. B. Ed |
| 9 | Prof. P. B. Dubale | Lecturer | M.Sc. B. Ed |

Subject Expert:

| SL. No | Name | Designation | Address |
|--------|--------------------------|-------------|-----------------------|
| 1 | Prof. Prasad M. Palankar | Lecturer | B.K. College, Chikodi |

Preamble:

ChemDraw is the world's leading scientific drawing program. Hundreds of thousands of users benefit from its easy of use, high quality output, quick chemical intelligence, rich set of biological tools and integration in the Chem Office. ChemDraw provides chemists and biologists with a rich set of easy-to-use tools for creating publication, scientifically meaningful drawings of molecules, reactions and biological entities and pathways and for generating associated properties, systematic names and spectra.

1. A single drawing solution that both chemists and biologists can trust to accurately handle and represent organic, organometallic and polymeric and biopolymer materials (including amino acids, peptides and DNA and RNA sequences) and to deal with advanced forms of stereochemistry.
2. Chemists can use ChemDraw to draw and submit chemical compound and reaction searches direct to SciFinder, with no more time-consuming cutting and pasting.
3. Students can quickly, effectively and accurately communicate research and ideas using an extensive set of biological templates and drawing objects to create compelling illustrations of cells and pathways, including live chemical objects as needed.
4. Students save time and increase data accuracy by using ChemDraw to predict properties, generate spectra, construct correct IUPAC names, and calculate reaction stoichiometry.

Course Objectives:

1. To enhance the skill and competency of students in research and development.
2. ChemDraw helps chemists to be more efficient, communicate more clearly and reach crucial information faster.
3. ChemDraw is the chemically intelligent solution for R&D for publishing, presenting and reporting.

Facilities Available:

- 1) Experience teaching faculty.
- 2) Computer lab facility to conduct practical classes of this course.

Eligibility:

Any B.Sc students are eligible apply for this value added certificate course.

Structure:

| Content | Hours |
|--------------|-----------|
| Theory | 25 |
| Practical | 15 |
| Total | 40 |

| Title of the Paper | No. of hours per week | Exam Hours | Marks |
|---------------------------------------|-----------------------|--------------------------|----------------------------|
| Chemdraw Software & it's Applications | 03 | Theory : 1 Hour | Theory :30 Marks |
| | | Practical: 2 Hour | Practical :20 Marks |
| | | Total = 03 Hours | Total = 50 Marks |

Pattern of Evaluation:

The Examination criteria for both Theory and practical mode is evaluated as per grade system.

'A' – Grade : 41- 50 Marks

'B' – Grade : 31- 40 Marks

'C' – Grade : 21- 30 Marks

Syllabus

Theory Syllabus:

Total = 25Hours

| | |
|--|------|
| Unit – 1 : Introduction of ChemDraw and It's Applications | 2Hrs |
| Unit – 2 : Chem draw software overview. | 5Hrs |
| Unit – 3 : Molecular Structure Drawing and Stereo Chemistry. | 6Hrs |
| Unit – 4 : Spectral Analysis of Chemical Compounds. | 6Hrs |
| Unit - 5 : Chemistry Research Document Creation. | 6Hrs |


Practical Syllabus:

Total = 15 Hours

1. Drawing a molecular Structure of Organic and Biochemical Compounds in 2D and 3D Dimensions. Drawing Chemistry Lab Equipment's, glassware's ...Etc.
2. Writing chemical equations. Determining Stereochemistry (Spatial Arrangement of particles), chemical and physical properties of a organic Compounds.
3. ¹H- NMR and C-13 NMR Spectral Analysis.
4. Convert chemical compounds structure to name and names to structures...etc.
5. Determining Molecular Parameteres such as bond length, bond angle, dihedral angles ..etc.
6. Fragmentation of a organic molecule , analysis of the organic molecule with 3 dimension rotation.
7. Creation of Chemistry Research Document using Chemdraw Software.

References:

1. Mills, N. (2006). "ChemDraw Ultra 10.0". *J. Am. Chem. Soc.* **128** (41): 13649–13650. doi:10.1021/ja0697875.
2. Strack, Dieter (2001). "ChemOffice Ultra 2000". *Phytochemistry*. **57** (1): 144. doi:10.1016/S0031-9422(00)00503-3.
3. Madlung, Andreas (1999). "Digital Chemical Intelligence". *Science*. **285** (5435): 1866–1867. doi:10.1126/science.285.5435.1866.
4. David A. Evans (2014). "History of the Harvard ChemDraw Project". *Angewandte Chemie International Edition*. **53** (42): 11140–11145. doi:10.1002/anie.201405820.


Head
HOD Chemistry
B. K. College, Chikodi.




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B. K. Arts, Science & Commerce College
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K.L.E. SOCIETY'S
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RE-ACCREDITED WITH "A" GRADE BY NAAC BANGALORE.
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2019-2020
Department of Chemistry Organizes

"CERTIFICATE COURSE IN CHEM DRAW & ITS APPLICATION"
(Specially for B.Sc. Students)

Syllabus:

| | |
|---|--------|
| I. Unit – 1 : Introduction of ChemDraw and It's Applications | 3 Hrs |
| II. Unit – 2 : Chem draw software overview. | 6 Hrs |
| III. Unit – 3 : Molecular Structure Drawing and Stereo Chemistry. | 7 Hrs |
| IV. Unit – 4 : Spectral Analysis of Chemical Compounds. | 7 Hrs |
| V. Unit - 5 : Chemistry Research Document Creation. | 5 Hrs |
| VI. Unit - 6: Application of M. S. Office in MNC's | 12 Hrs |

Overall Syllabus Covered in this Certificate Course **40Hours**

Drawing a Molecular Structure of Organic and Biochemical Compounds in 2D and 3D Dimensions. Drawing Chemistry Lab Equipment's, glassware's ...Etc. Writing chemical equations. Determining Stereochemistry (Spatial Arrangement of particles), chemical and physical properties of a organic Compounds. ¹H- NMR and

C-13 NMR Spectral Analysis. Convert chemical compounds structure to name and names to structures...etc. Determining Molecular Parameters such as bond length, bond angle, dihedral angles ..etc. Fragmentation of a organic molecule , analysis of the organic molecule with 3 dimension rotation. Creation of Chemistry Research Document using Chemdraw Software and M.S.Office. and its Application in Pharma Industry. Using of Macros, reference and mail merge in M.S.Word, formula based documentary creation through M.S. Excel.



HOD
Head of the
Department of Chemistry
B. K. College, CHIKODI - 591 201



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Department of Physics

2019-20

Value Added Certificate course in "COMPUTER PROGRAMMING AND C-
LANGAUGE"-I

Syllabus

Total 30Hrs (Theory(8Hrs+Practical 12Hrs)

Theory (18 Hrs)

Unit-I : Programming Concepts, Preliminaries of Programming (Problem Definition and Solution, Algorithms & Flow charts). 04 Hrs

Unit-II : Study of C-language, Basic structure of C-programming, tokens, keywords 03 Hrs

Unit-III Identifiers, constants, variables, data types, decision control statement, operators and expressions. 04 Hrs


Unit-IV: Loop control statement, decision control statement 03 Hrs

Unit-V: IF-ELSE statement for looping, case control statements. Problems 04 Hrs

Practicals (12 Hrs)

1. Write a C-programming to check whether the given number is palindrome or not.
2. Write a C-programming to find out the roots of a quadratic equation.
3. Write a C-programming to check whether the given number is even or odd.
4. Write a C-programming to find factorial of a number.
5. Write a C-programming to find largest of three numbers
6. Write a C-programming to find sum of n numbers/ sum of a given series.


Staff Incharge


Head of Dept.
Department of Physics
K. College, CHIKODI


PRINCIPAL
Basavaprabhu Kore College
Chikodi



Department of Physics

2019-20

Value Added Certificate course in "COMPUTER PROGRAMMING AND C-
LANGAUGE"-II

Syllabus

Total 30Hrs (Theory 8Hrs+Practical 12Hrs)

Theory (18 Hrs)

Unit-I : Programming Concepts, Preliminaries of Programming (Problem Definition and Solution, Algorithms & Flow charts). 04 Hrs

Unit-II : Study of C-language, Basic structure of C-programming, tokens, keywords 03 Hrs

Unit-III Identifiers, constants, variables, data types, decision control statement, operators and expressions. 04 Hrs


Unit-IV: Loop control statement, decision control statement 03 Hrs


Unit-V: IF-ELSE statement for looping, case control statements. Problems 04 Hrs

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4. Write a C-programming to find factorial of a number.
5. Write a C-programming to find largest of three numbers
6. Write a C-programming to find sum of n numbers/ sum of a given series.


Staff Incharge


Head of Dept.
Department of Physics
S. K. College, CHIKODI


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Principal
Basavaprabhu Kore College
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Basavaprabhu Kore Arts, Science and Commerce College, Chikkodi – 591201

Department of Zoology

Syllabus distribution Short Term Course (2019 – 20) : ENVIRONMENT

| Unit | Content | Hours | Faculty |
|------|--|-------|----------------------|
| 1 | Introduction: Concept of environment, biosphere, ecosystem, food chain, food web, trophic level, ecological pyramids, biodiversity, conservation, water resources, pollution, sewage, mining, desertification, deforestation, sustainable development. Components of ecosystem | 03 | Miss T P Khidrapure |
| 3 | Renewable energy: Solar, Hydro, tidal, wind, biomass, Waste-to-Power, biofuel. Non-renewable energy resources: Fossil fuel including coal, petroleum, oil and natural gas | 03 | |
| 4 | Impact of: (a) mining (b) deforestation (c) industrial effluents (d) hydroelectric projects (e) air, land and sound pollution (f) pesticides (g) excess use of inorganic fertilizers | 03 | |
| 6 | Environmental Impact Assessment (EIA): EIA Process, Role of the State Pollution Control Boards, Role of the Ministry of Environment and Forests, National Environment Appellate Authority, Role of NEERI. Case studies of EIA | 03 | |
| 8 | Environment management, Ecotourism, Alternate energy initiatives, Management of waste (solid, liquid and e-waste), rain water harvesting, green practices and Environment Protection Act | 03 | |
| 2 | Issues: The challenges we face, forest clearance, population explosion, types of pollution, global atmospheric changes, hazardous wastes and incineration, urban problems related to energy, water conservation, watershed management, resettlement and rehabilitation of people, climate change, global warming, acid rains, ozone level depletion, nuclear accidents, environment clearance and development issue | 05 | Smt. Megha Kapurakar |
| 5 | People participation in 'save environment': (1) Bishnoi Movement (2) Chipko Movement (3) Save Silent Valley (4) Appiko Movement (5) Narmada Bachao Andholan (6) Tehri Dam Conflict (7) Jungle Bachao Andholan (8) Pluck and Plant movement (9) Navdanya Movement (10) Save Western Ghats (11) Campaign against iron ore mining and for mine workers' rights (12) Anti-uranium mining campaign (12) Anti-thermal power plant and coal mining campaigns (13) Rights of stone and quarry workers (14) Campaign against bauxite mining (15) Campaign against copper smelting plant | 07 | |
| 7 | Case studies: Bhopal gas tragedy, Bathing of animals, people and water quality, Chernobyl Nuclear Accident, Fukushima nuclear disaster, Gulf of Mexico Oil Spill, Spoils of War, Leaded gasoline, Toxic pesticide, Indoor Air Pollution, The Pacific Garbage Patch | 03 | |

Smt Megha Kapurakar

(T. P. Khidrapure)

HEAD
DEPARTMENT OF ZOOLOGY



K.L.E. Society's
Basavaprabhu Kore Arts, Science and Commerce College, Chikodi
[Re-accredited at 'A' grade by NAAC with CGPA of 3.26]

Department of Zoology
Value added course (w.e.from 2019-20)

"PRINCIPLE AND TECHNIQUES OF BIOINSTRUMENTATION"

23 DEC 2019

Syllabus (Course & structure)

Duration: 30Hours

1. **Safety in Laboratories:** Safe use of laboratory equipments, hazards in laboratory, waste disposal and first aid. 3 hours
2. **Balance:** Analytical balance and Physical balance. 3 hours
3. **Centrifuge:** Basic principles of sedimentation, types of rotors and types of centrifugation. 3 hours
4. **pH and pH meter:** principle and applications. 3 hours
5. **Chromatography:** paper chromatography, thin layer chromatography, column chromatography and gel filtration. 3 hours
6. **Electrophoresis:** principle types and applications. 3 hours
7. **X-ray crystallography and calorimetry:** Principle, instrumentation and application. 3 hours
8. **Biosensors:** components and types of biosensors. 3 hours
9. **DNA microarray:** Principle and application. 3 hours
10. **Flow cytometry:** Principle and application. 3 hours

References

1. Principles & Techniques of Practical Biochemistry - Keith Wilson and John Walker, Cambridge Press.
2. L. Stryer BIOCHEMISTRY 4th Ed. (1995) W.H. Freeman Co., San Francisco, USA
3. Friefelder D. WH Freeman and Company. Physical Biochemistry- Application to Biochemistry and Molecular Biology.
4. Instrumental Methods of Analysis-Chatwal & Anand, Himalayan Publication.
5. Biophysical Chemistry, Principles & Techniques –Himalaya Publ. House.

OBJECTIVES


- ❖ To understand the basic laboratory safety measures
- ❖ Students learn the analytical instrument handling methods
- ❖ Learn principle and applications of bioinstruments

COURSE OUTCOME

- ❖ The course develops the skills in handling bioinstruments
- ❖ It Allow the students to learn laboratory safety
- ❖ Helps students to build their career in Biochemistry, Biotechnology and Medical Microbiology laboratories.
- ❖ Helps to get basic knowledge to design and set their own labs and self employment


(A.S.E. Kurant)


(T.P. Khichapure)


HEAD
DEPARTMENT OF ZOOLOGY

23 DEC 2019


PRINCIPAL

B. K. Arts, Science & Commerce College
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