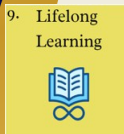
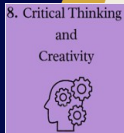




ST. ALOYSIUS' COLLEGE

AUTONOMOUS
JABALPUR- 482001
MADHYA PRADESH, INDIA



CRITERION-1



CURRICULAR ASPECTS

Key Indicator – 1.3

Curriculum Enrichment

Metric No.: 1.3.2

Number of certificate/value added courses/Diploma Programmes offered by the institutions and online courses of MOOCs, SWAYAM/e-PG Pathshala/ NPTEL and other recognized platforms where the students of the institution have enrolled and successfully completed during the last five years (without repeat count).

Document Name

Brochures with Course Modules of Value Added Programs

2022-23.



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

**Diploma in International Business (Advance Case Study)
Brochure
&
Course Module**



1, Ahilya Bai Marg, Pentinaka Chowk, Sadar, Cantt, Jabalpur, Madhya Pradesh, INDIA 482001

+917612620738



info@stalovsiuscollege.ac.in



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

Department of Management Diploma in International Business

(Advance Case Study)



About Course

COURSE PRICE. RS. 10000

REGISTRATION PRICE. RS. 500

REGISTRATION AMOUNT IS NON-REFUNDABLE

FOR MORE INFORMATION CONTACT DEPARTMENT OF MANAGEMENT

Teachers Incharge:

- Mrs. Rashmi A. Patras +91 6267298860
- Mrs. Shraddha Shrivastava +91 8461914924





ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

**Department of Management
Studies
Diploma in International
Business(Advance Case
Study)
(1 year Programme)**



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.





ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

Department of Management Studies Diploma in International Business (1 year programme)

Course Focus:

This course focuses on the "Context" aspect of strategy, where the context here happens to be internationalization/globalization. Through discussing various case studies that involve International issues arising out of working in a different country, culture and a diverse workforce, the course seeks to develop the much required skills in budding Business Managers to manage such situations, both in India and abroad.

Course Format:

- July – December : Semester I
- Examinations : December
- January – June : Semester II
- Internship : May- June
- Examination: June
- Each paper of 100 Marks maximum.
- Internal Marks: 60 each.
- Includes : Presentation, Attendance, Written test and Assignments.
- Timings: Monday to Saturday 12:00to 1:00pm.

Course Content:



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

- The Course has been and case study approach is added to give the students the practical approach. The case study approach provides the hands on training to the students.

Semester I

- Principles & Practices of Management & Case Dynamics
- International Business Environment & Case Dynamics
- Global Culture and Business Ethics & Case Dynamics
- International Marketing Management & Case Dynamics

Semester II

- Global Strategic Management & Case Dynamics
- International Financial Management & Case Dynamics
- *Internship / Project Work*

Course Pedagogy

The course is almost completely Case based. The focus is on in-class participation. The objective is to make better managers of the students by putting them in situations that involve taking decisions on matters of International management. Since the focus is on class preparation and participation, students are rewarded for both preparation and participation.

- **Course structure and positioning**

The course assumes knowledge of all the basic concepts of management on the part of the students. However lack of sufficient knowledge of International management or cross cultural management will not be a handicap in comprehending this course.

Regulations of Diploma in International Business

1. The one year Diploma course will run according to semester system as per regulations.



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

2. **The diploma course will have 2 semesters.**
3. **The intake and fees will be regulated by the college's decision from time to time.**
4. **Admission under the course will be made on the basis of merit or through the entrance test.**
5. **The eligibility to admission will be 12th pass in any stream with minimum 50% .**
6. **The course will include the internship/project work and examination.**
7. **Each student will have to appear in the examination of theory, internship/project work and internal assessment necessarily.**
8. **The candidate is required to complete the entire course within a maximum period of 2 years from the session of the first admission necessarily.**
9. **The student will be eligible to appear for the final examination only when he/she has secured 75% attendance.**
10. **The internal examination will be based on the case study, assignment, written test and presentations.**
11. **The internal examination carries 60% of the total marks. 40% passing in internals is necessary to appear in the final examination.**
12. **Internship/Project work will be conducted under the guidance of the faculty. The Internship/project work will comprise of 40 marks and project report will be of 35 marks and project viva of 35 marks. Project report will be assessed by the external examiner and thereafter Viva examination will be conducted by the external examiner which will comprise of 35 marks each. The passing marks will be 40% of each component. That is Internship/project work will have minimum passing marks as 16. Project report will have 14 marks as minimum passing and also project viva. The internship/Project work will be undertaken for a minimum period of two months in any institution/business house which deals with international business.**
13. **A candidate who fails in the internal examination will cease to be a student in the course and will be ineligible to appear in the final examination.**
14. **If the candidate fails in one subject in any one semester but clears in the remaining subjects of that examination , he/she will be "Allowed to keep the Term" i.e. ATKT and will be promoted to the next semester. He/she shall be eligible to carry the**



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

backlog of one subject of each semester examination but in no case he/she shall be permitted to carry backlog of more than one subject at a time. In case of ATKT examination an additional fee for examination will be paid by the candidate as per the norms of college.

15. Provided further that if a candidate fails in some subject of earlier semester but gets passing marks in internal examination, he/she may be allowed to appear as an ex-student in the next examination of the same semester.

16. Provided further that if a candidate fails in some subject earlier semester and clears the final/second semester, his/her results will be withheld. He/she will be awarded diploma only in the year in which he/she clears the papers. In such a situation, mark-sheet for each semester will be issued together in the second semester, once he/she clears all the subjects.

17. There will be no provision of revaluation. However the candidate can apply for re-totalling in one subject per semester as per the norms of college.

18. No candidate will be permitted to appear in the semester examination unless one has:

- Attended at least 75% of the lectures
- Appeared for all the internal assessments and cleared them
- Paid all the fees due
- Submitted the job internship certificate and project report in the final semester.

19. The division shall be awarded on the basis of total marks obtained in the internals assessment and external examination taken together.

- a. 60% or above as first division
- b. 50% to 59 % as second division
- c. Less than 49% as third division.

20. In case of any dispute/ambiguity the ruling of the Principal shall be final and binding.



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

Scheme of Examination

Paper	Subject	Total Marks		Internal		External	
		Max.	Min.	Max.	Min.	Max.	Min.
DIB 101	International Management- Principles & Practices	100	40	60	24	40	16
DIB 102	International Business Environment	100	40	60	24	40	16
DIB 103	Global Business and Business Ethics	100	40	60	24	40	16
DIB 104	International Marketing Management	100	40	60	24	40	16
DIB 201	Global Strategic Management and Case Dynamics	100	40	60	24	40	16
DIB 202	International Financial Management	100	40	60	24	40	16
DIB 203	Internship/Project work:	100	40				
	a. Internship/Project	40	16				
	b. Project Report	35	14			100	40
	c. Project Viva	35	14				

Model Question Paper

St. Aloysius College (Autonomous), Jabalpur

Department of Management Studies



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

Diploma in International Management

Paper:

Max. Marks: 40

Min. Marks: 16

Attempt all the questions. Internal choices are given. All questions carry equal marks.

[8*5=40]

1. Ques 1.
OR
Ques. 1.
2. Ques 2.
OR
Ques 2.
3. Ques 3.
OR
Ques 3.
4. Ques 4.
OR
Ques 4.
5. Ques 5.
OR
Ques 5

Patron: Dr. Fr. Vazhan Arasu

Examination Controller: Dr. Meeta Darbari

Course Coordinator: Dr. Rashmi Patras



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

Faculty:

Dr. Shraddha Shrivastava

Dr. Rashmi Singh

Dr. Chitranshi Verma

Dr. Richa Dixit Bajpai

Mrs. Aparna Dhingra

Mrs. Archana Dubey

Fees Structure

Course Fee: Rs. 10,000/- (inclusive of the Examination Fees)

Registration Fees -500/- (Non -Refundable)

Installments of Rs. 5000/- each:

<u>1st installment</u>	<u>2nd Installment</u>
July	December



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

Management for successful operations of the international firms. To get acquainted with the principles and practices related with management studies at international level.
20 lectures

1. International Management: Concept, Dimensions and Approaches; Globalization, Business culture and corporate culture; Problems of intercultural communication; Leadership in the Cross-cultural dimensions, Cross-cultural values and business management; Business values ethics and social responsibilities.

2. Challenges of Global Planning: Economics, political, and strategic predisposition imperatives; Resource allocation and portfolio compositions of a global firm; Planning for linkages and synergies among business across borders; Locus of decision making; Headquarter-subsidiary relationships in international business enterprises.

3. Organization and Control for international Competitiveness: Multinational Corporations: Nature, goals, Global Trade and its theories, Organization design and structure of international companies & Case Study Concepts

4. Management of Personnel with Different Social and Cultural Backgrounds: Selection, training and development of people for global assignments; Compensation and reward practices among international firms; managing cultural and social diversities & Case Study Concepts

5. Managing international Collaborative Arrangements: Joint Ventures and other forms for strategic alliances: Traditional and emerging reasons for forming strategic alliances, Pitfalls in strategic alliances; Making cross-cultural alliances work & Case study Concepts

Text Book: International Business, K Aswathappa; Tata McGraw Hill.



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

Paper : DIB-102 International Business Environment

objective: The objective of this paper is to familiarize the students with the current business scenario and build their foundations of the basic policies and regulations of India as well as the world financial environment.

20 lectures

1. International Business: Overview, types of environment –economic, political, social, cultural and legal. Influence on trade and Investment patterns, Recent World Trade and Foreign Investment trends, Country risk. Changing Environment of International Business: Globalization, Liberalization and Privatization.
2. Trade and Investment: Foreign Direct Investment, Govt. influence on trade and investment.
3. World financial environment - tariff and non- tariff barriers, forex market mechanism, exchange rate determination, Eurocurrency market, international institution (IMF, IBRD, IFC, World bank, IDA, MIGA) NBFS's and Stock markets.
4. Regional trading blocks and trading agreements' global competitiveness. Corporate Governance, global competition, HR development, social responsibility, world economic growth and physical environment.
5. Case Study Concepts and Dynamics

Text Book: Public Finance and International Economics; M L Jhinghan



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

Paper DIB-103

Global Business And Business Ethics

20 lectures

1. Overview of Global Business: Globalization Issues/Forces The big picture, The importance of IB in the world economy, Global Monetary and Financial System, International Politics, Regulation, and Law Project II
2. Business ethics: Definition & nature, Characteristics of ethical problems, The Role of Ethics in Business, Causes of unethical behavior; Ethical abuses; Work ethic, Code of ethics, The Importance of Business Ethics, Stakeholder Relationships, Social Responsibility, and Corporate Governance. With Case Study Concepts.
3. Role of foreign cooperation in economic development, Employment opportunities and new paradigms in employment , Indian and International Labor standards.
4. The Cultural Challenge and raising up to the global challenge, Global Business Operations and Management. Global Business Strategy , Global Marketing , Global Financial Management. And Case study Concepts
5. Emerging Business Ethics Issues; Business Ethics in a Global Economy & Case Studies

Text Book: International Business , K Awathanna: Tata McGraw Hill.



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

Paper DIB- 104 INTERNATIONAL MARKETING MANAGEMENT



Objectives

- The course participants will become more familiar with the nature and practices of international marketing. They should feel equally confident to be able to distinguish international marketing mechanics from the domestic marketing models and approaches.
- They would be far more equipped to design and participate in designing an international marketing strategy.
- The spin-off benefits to the participants should be to develop in them a right attitude, inject enthusiasm and hone their interactive ability as they address the issues and challenges of operating in the international markets.

20 lectures

1: Introduction to International Marketing: International Marketing Environment, Preparing for International Marketing Strategies.

2: International Marketing Mix: International Research and Segmentation, Developing Global Products and Pricing, International Promotion and Advertising, International Distribution Systems.

3. The Indian Export Scenario: The Export Import Scene in India, Import-Export Policy, Export Documentation, Export Procedure, International Technology Transfer and Counter Trade, The Trade Mark Regime.

4. International Marketing Planning: Managing Systems for International Marketing, Reflection and Evaluation of the Endeavors.

5. Case Study Concepts & Dynamics

Suggested Readings:

1. International Marketing by R. Srinivasan
2. International Marketing by Dr. R. K. Kothari & Dr. P.C. Jain
3. International Marketing by Rajgopal
4. International Marketing by Sunil Gupta & Kulbhushan Chandel



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

Paper DIB: 201 GLOBAL STRATEGIC MANAGEMENT & CASE DYNAMICS

20 lectures

Objective: The objective of this paper is to help students understand strategy making process that is informed integrative and responsive to rapid changes in an organization's globally oriented environment and also to help them understand tasks of implementing strategy in a global market.

1. Introduction: Strategy making strategy implementing and strategic managing; Roles of line managers, strategic planners and top management; Developing strategic vision and mission; Setting objectives and forming a strategy; Globalization and strategic management; Strategic flexibility and learning organization.

2. Environmental: Scanning and Competitiveness Analysis; Appraising company's external strategic situation, company situation, competitive strategy and competitive advantage in global market.

3. Situation Specific Strategies: Strategies for situation like competing in emerging industries, maturing or declining industries, fragmented industries, hyper –competitive industries and turbulent industries; Strategies for industry leaders, runner -up firms and weak businesses.

UNIT 4 & 5 : CASE STUDIES

Suggested Readings:

1. Davidson, W.H., Global Strategic Management, John Wiley, New York.
2. Ellis, J. and D. Williams, International Business Strategy, Pitman, London, 1995.



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

Paper 202: INTERNATIONAL FINANCIAL MANAGEMENT

20 lectures

Objectives: This paper will introduce the environment of international finance and its implications on international business, it will help to understand the nature and functioning of foreign exchange markets, determination of exchange rates and interest rates.

Unit 1. The Foreign Exchange Market: Structure and Operations , The International Monetary System .The Balance of Payments: Implications for Exchange Rates, International Parity

Unit 2. Management of Foreign Exchange Exposure and Risk , Currency Forwards and Futures , Currency Options, Financial Swaps

Unit 3. Cross-border Investment Decisions, Financing Decisions of MNCs. Foreign Investments & Management of Working Capital: An International Perspective

Unit 4. Foreign Investments & Management of Working Capital: An International Perspective

Unit 5- Case Studies

Suggested Readings:

1. International Financial Management, Thummuluri Siddaiah: Pearsons.
2. International Financial Management, Jeff Madura
3. International Financial Management, Cheol S Eun, Bruce G Resnick



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

Paper 203: INTERNSHIP/PROJECT WORK

Time duration: 2 months

Project Work should be undertaken by the candidate as assigned by the faculty of the course . Internship/Project work will be conducted under the guidance of the faculty. The Internship/project work will comprise of 40 marks and project report will be of 35 marks and project viva of 35 marks. Project report will be assessed by the external examiner and thereafter Viva examination will be conducted by the external examiner which will comprise of 35 marks each. The passing marks will be 40% of each component. That is Internship/project work will have minimum passing marks as 16. Project report will have 14 marks as minimum passing and also project viva. The internship/Project work will be undertaken for a minimum period of two months in any institution/business house which deals with international business.



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

Certificate Course in Business Analytics Brochure & Course Module



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

Department of Management Certificate Course in Business Analytics

MOST IN-DEMAND COURSE OF THE CENTURY [APPLY NOW](#)

ST. ALOYSIUS' COLLEGE (AUTONOMOUS)

CENTRE OF VALUE ADDED COURSES

About Course

Create your next opportunity by learning how to apply basic statistics to real business problems and strengthen your analytical skills.

Data analytics can help an organization with everything from personalizing a marketing pitch for an individual customer to identifying and mitigating risks to its business.



Course Price: Rs. 1500

Contact Department of Management and Department of Computer Science for further Information.

Teachers Incharge:

- ▶ Mrs. Sukhvinder Kaur Wallia +91 9425157667
- ▶ Mrs. Rashmi A. Patras +91 6267298860
- ▶ Mrs. Shraddha Shrivastava +91 8461914924



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

DEPARTMENT OF MANAGEMENT

Certificate Course In Business Analytics

Course Details

Duration :-3 hours

Commencement Date :13 th Feb

Module Details :

Module 1

Modern Management & Organisational Techniques

UNIT I

- Definition and Meaning of Management, Functions and Responsibilities of Management, Role of Manager, Principles of Management, School & Thoughts of Management, Functional Areas of Management: Production & Operations management, HRM, Financial Management & Marketing Management, E- Business. Case Studies

UNIT II

- Planning: Process, types and Significance, Planning vs. Forecasting, Objective, Strategies and Policies, MBO, Decision making: Process & Significance. Direction: Principles & Techniques, Motivation: Types & Significance, Maslow's Need Hierarchy, Theory X & Y of Motivation, Leadership: Styles and Importance. Case Studies

Unit III

- Concept of Organisational Behaviour, Contributing Disciplines to Organisational Behaviour; Background/ Historical perspective and Framework of OB, Challenges to the field of OB in Global and Digital Era.

Unit IV

- Individual Behaviour, Personality, Perception- Perceptual selectivity, Perceptual organisation, Social Perception and Impression Management, Attitude and Values, Learning and Re-enforcement.

Unit V

- International Dimensions of Organisational Behaviour, Equal Employment Opportunities, Organisational Culture, Managing Cultural Diversity, Learning



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

Module 2

Advance Statistics

Unit I

Descriptive Statistics Meaning, Scope, types, functions and limitations of statistics, Measures of Central tendency – Mean, Median, Mode.

Unit II

Measures of Dispersion - Quartiles, – Range, Inter quartile range, Mean deviation, Standard deviation, Variance, Coefficient of Variation, Skewness.

Unit III:

Correlation & Regression Analysis, Correlation Analysis: Rank Method & Karl Pearson's Coefficient of Correlation and Properties of Correlation. Regression Analysis: Fitting of a Regression Line (Univariate Regression analysis) and Interpretation of Results, Properties of Regression Coefficients and Relationship between Regression and Correlation.

Unit IV

Time series analysis: Concept, Additive and Multiplicative models, Components of time series, Trend analysis: Least Square method - Linear and Non- Linear equations, Applications in business decision-making.

Unit V

Hypothesis Testing - Hypothesis Testing: Null and Alternative Hypotheses; Type I and Type II errors; Testing of Hypothesis: Large Sample Tests, Small Sample test, (t, F, Z Test and Chi Square Test)



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

Module 3

Predictive Analytics Using R

- ▮ Learn the basics of R Syntax
- ▮ Learn how to organize and modify data in R using data frame and dplyr
- ▮ Learn how to prepare data for analysis in R using dplyr and tidyr.
- ▮ Learn the basics of how to create visualizations using the popular R package ggplot2
- ▮ Learn the basics of aggregate functions in R with dplyr, which let us calculate quantities that describe groups of data
- ▮ Learn the basics of joining tables together in R with dplyr
- ▮ Learn to use R or manually calculate the mean, median, and mode of real world datasets
- ▮ Learn how to quantify the spread of the data set by calculating the variance and standard deviation in R
- ▮ Learn how to calculate three important descriptive statistics- Quartiles, Quantiles, and Interquartile range that describe the spread of the data
- ▮ Learn about the statistics used to run hypothesis tests and use R to run different t-tests that compared is distributions.



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

Module 4

Machine Learning Using Python

Unit 1:

Introduction of Python, Jupyter Notebook, Python Functions, Python Types and Sequences, Python More on Strings, Reading and Writing CSV files

Unit 2:

Advanced Python Objects, map(), Numpy, Pandas, Visualization Data Matplotlib, Bar Charts, Line Charts, Scatterplots

Unit 3:

The Series Data Structure, Querying a Series, The Data Frame Data Structure, Data Frame Indexing and Loading, Querying a Data Frame, Indexing Data frames, Merging Data frames

Unit 4:

Data Aggregation and Group Operations, Time Series, Date and Time Data Types and Tools, Time Series Basics, Date Ranges, Frequencies, and Shifting, Time Zone Handling, Periods and Period Arithmetic, Resampling and Frequency Conversion, Time Series Plotting, Moving Window Functions

Unit 5:

Natural Language Processing, Image Processing, Machine Learning K Nearest Neighbors Algorithm for Classification, Clustering



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

DOEACC Brochure & Course Module



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

DOEACC 'O' Level

'O' level course of DOEACC Scheme is equivalent to a Foundation Level Course in Computer Applications. Students can acquire this qualification by undergoing this course and passing the examination conducted by the NIELIT. After completion of 'O' Level course, students can further enroll for DOEACC 'A' level course.

CAREER OPPORTUNITIES



- Junior Programmer
- EDP Assistant
- Web Designer
- Lab Demonstrator

Organized By-
Department of Computer science

In-charge Name- Ms. Mala Das

Contact No.-94253 85279

Ministry of Electronics & Information Technology
Government of India



St. Aloysius College, 1, Ahilya Bai Marg,
Pentinaka Chowk, Sadar, Jabalpur, Madhya
Pradesh, INDIA 482001

learn more by clicking here
[https://nielit.gov.in/chandigarh/content/
doeacc-o-level-0](https://nielit.gov.in/chandigarh/content/doeacc-o-level-0)



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.



NIELIT Syllabus Booklet 'O' Level (IT)-Revision V

1. 'O' LEVEL COURSE

1.1. Objective of the 'O' Level Course

The objective of the course is to equip a student with necessary skills as per following job role.

- User Interface (UI) Designer
- Web Designer
- Web Publication Assistant
- Office Automation Assistant
- IoT Application Integrator

1.2. Structure of NIELIT 'O' Level Course

DOEACC 'O' Level Course consists of four compulsory theory modules, one practical and one Project. The structure of the 'O' Level syllabus is indicated below:-

Module Code	Module	Learning Hours (Theory)	Learning Hours (Practical/Tutorials/Project)	Total Learning Hours
M1-R5	Information Technology Tools and Network Basis	48	72	120
M2-R5	Web Designing & Publishing	48	72	120
M3-R5	Programming and Problem Solving through Python	48	72	120
M4-R5	Internet of Things and its Applications	48	72	120
M5-R5	Practical based on M1-R5, M2-R5, M3-R5 and M3-R5			
M6-R5	Project		40	40
	Total	192	328	520

1.3. Duration of the Course

The duration of DOEACC 'O' level course is 520 hours and the minimum period to cover contents is **Six Months**.

2. PRACTICAL

The students have to devote 60% of the total time allotted to each module of the course for the practical sessions. Practical assignments have been worked out for each theory module. The Practical examination will be based on the syllabi M1-R5, M2-R5, M3-R5 and M4-R5 modules of 'O' Level course.

Document Version v1 dated 29th March, 2019



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.



NIELIT

Syllabus Booklet 'O' Level (IT)-Revision V

3. PROJECT

DOEACC curriculum has a project as an important component of 'O' Level course. The Project is carried out by the student under guidance and support of faculty and management of the respective Institute / Organization. It is felt that such a project provides an opportunity to the student to apply his / her knowledge and skills to real life problems (including oral and written communication skills), and as such the project should be given utmost importance and priority both by the students as well as institution faculty / management in respect of its identification, planning and implementation.

3.1. Objective of the Project

The objective of the project is to give the students an additional hand-on experience in solving a real life problem by applying knowledge and skills gained on completion of theory papers in a course at a given Level. It provides an opportunity to students to develop written and communication skills. Project also helps the students to realize the importance of resource and time management, ownership of task towards deliverables, innovation and efficiency in task management apart from presentation skills. It also provides a good opportunity for students to build, enhance and sustain high levels of professional conduct and performance and evolves a problem solver frame of mind in the students. It is also felt that taking up the project by a student prepares him for a job in industry and elsewhere.

3.2. Project Submission

The student undergoing course 'O' level course has to submit project in order to be 'O' Level certified. The project should be original, of real life value and not copies from existing material from any other source.

The Learners are expected to carry out a project successfully and submit certificate in the prescribed format from the head of the institute running the accredited course or the organization of which the Learner is an employee. Proforma of the Project Completion Certificate is given as follows.

Document Version v1 dated 29th March, 2019



NIELIT

Syllabus Booklet 'O' Level (IT)-Revision V

4. CREDIT SCHEME FOR DOEACC 'O' LEVEL

4.1. Course Introduction

A credit system based on the AICTE norms has been introduced for indicating the efforts required to pass a specific level of course under the DOEACC Scheme. Award of credit to a student will facilitate measurement/comparison of study hours including Theory Lectures, Tutorials and Practical Assignments put in a given module/paper/subject under the Scheme with similar course in IT in India and abroad. This will also facilitate other Universities/ Apex Accrediting bodies to consider academic and professional equivalence of DOEACC courses. This will also help students/organizations to transfer credits from DOEACC to other academic bodies and vice-versa for ensuring continuing education. Following table gives the number of hours of Lectures/Tutorials and Practicals per week to be attended and the credits earned by the student-

4.2. Calculation of Credits

Sr. No.	Module Code	Module Name	No. of Lecture per week (L)	No. of Tutorial/ Practical per week (T+P)	Total Credit L + (T+P)/2
1.	M1-R5	Information Technology tools and Network Basis	2	4	4
2.	M2-R5	Web Designing & Publishing	2	4	4
3.	M3-R5	Programming and Problem Solving through Python	2	4	4
4.	M4-R5	Internet of Things and its Application	2	4	4
5.	M6-R5	Project		2	1
6.		Total Credits			17

Notes

- One credit is defined as one hour of lecture and 2 hours of tutorials/ practical every week for one semester consisting of 20 weeks.
- Total number of credits earned in a module is calculated using AICTE formula (as applicable to Under Graduate Courses in IT namely $C=L + (T+P)/2$ where L, T and P indicate number of hours per week for Lectures, Tutorials and Practicals.
- The credit scheme was implemented from July, 2003 examinations.
- Fractions in Credits have been rounded to nearest integer.

Document Version v1 dated 29th March, 2019



1, Ahilya Bai Marg, Pentinaka Chowk, Sadar, Cantt, Jabalpur, Madhya Pradesh, INDIA 482001

+917612620738

info@stalovsiuscollege.ac.in



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.



NIELIT Syllabus Booklet 'O' Level (IT)-Revision V

5. EXAMINATION PATTERN

The theory examination for each module under the fifth revised syllabus would be for duration of three hours and the total marks for each subject would be 100. One Practical examination of three hours duration and would be of 100 marks. The first examination with the revised syllabus will be held in January 2020, for which teaching will commence with immediate effect.

Dates for the various activities connected with examinations will be announced on NIELIT website, well in advance of the examinations.

Laboratory/ Practical work will be conducted at Institutions / organizations, which are running the course. NIELIT will be responsible for holding the examination for theory and practical both for the students from Accredited Centers and student at large.

5.1. Pass Percentage

To qualify for a pass in a module, a candidate must have obtained at least 50% in each theory, practical examination and project. Following table shows the marks distribution

Module Code	Module	Maximum Marks
M1-R5	Information Technology tools and Network Basis	100
M2-R5	Web Designing & Publishing	100
M3-R5	Programming and Problem Solving through Python	100
M4-R5	Internet of Things and its Applications	100
M5-R5	Practical based on M1-R5, M2-R5, M3-R5 and M4-R5	100
M6-R5	Project (Certificate only to qualify O Level)	-
	Total Maximum Marks	500

The marks will be translated into grades, while communicating results to the candidates. The gradation structure is as below:-

Pass Percentage	Grade
Failed (<50)	F
50%-54%	D
55%-64%	C
65%-74%	B
75%-84%	A
85% and over	S

Document Version v1 dated 29th March, 2019



NIELIT Syllabus Booklet 'O' Level (IT)-Revision V

5.2. Award of Certificates

The students would be eligible for the award of 'O' Level certificate on successfully qualifying the Theory Examinations of all modules, Practical Examination and the Project. The 'O' Level Certificate was recognized as equivalent to Foundation Level Course by the Government of India for the purpose of employment vide Notification No. 43 & 49 dated 1st March, 1995 and 10th April, 1996 respectively issued by the Ministry of HRD, Government of India.

5.3. Registration

Registration is a pre-requisite for appearing in 'O' Level examinations. A candidate can register at only one Level at a time to appear for the examination. Registration is only for candidates and not for institutes. Candidate has to register with NIELIT through online portal.

5.4. Eligibility Criteria

The eligibility criteria for registration at 'O' Level is as follows:

5.4.1. Students from Institutes conducting accredited courses:

10+2 or ITI Certificate (One Year) after class 10 followed in each case, by an accredited 'O' Level course.

Or

Successful completion of the second year of a Government recognized polytechnic engineering diploma course after class 10, followed by an accredited 'O' Level course concurrently during the third year of the said polytechnic engineering diploma course. The certificate of 'O' level will be awarded only after successful completion of the polytechnic engineering diploma.

5.4.2. Direct Applicants

10+2 or ITI Certificate (One Year) after class 10, followed in each case, by one-year relevant experience. Relevant experience connotes job experience in IT, including teaching in a recognized institution as a faculty member, excludes coaching.

Or

A pass in the NCVT-DP&CS (data Preparation & Computer Software) Examination, conducted by DGE&T (Govt. of India)

For getting registered, a candidate fulfilling the eligibility criteria should apply online in NIELIT portal. Registration fee is also to be paid online. Registration fee once paid is not reimbursable or adjustable against any other payment.

Registration application can be submitted online throughout the year, however cut off dates are specified for submitting Registration applications for each examinations for the convenience of processing and allotting Registration Numbers.

Cut off Dates	
January Examination	July Examination
Preceding 30 th June	Preceding 31 st December

Document Version v1 dated 29th March, 2019



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.



NIELIT Syllabus Booklet 'O' Level (IT)-Revision V

7.4. Others

Arduino UNO or equivalent board sensors and motors

1. SOFTWARE REQUIREMENT FOR 'O' LEVEL COURSE

Sr. No.	Particular	Software
1.	Operating System	Linux/Windows/Unix
2.	NOS	Linux/Windows/Unix
3.	Software Package	LibreOffice, Star Office/ MS Office or any relevant word processing/spreadsheet
4.	Compiler/Interpreter	Python
5.	Antivirus	Standard
6.	Internet and Web Publishing Tools	Standard Browser and publishing tools
7.	IoT	Arduino IDE Ardublockopen Tool

2. PARITY TABLE BETWEEN REVISION IV and REVISION V of 'O' LEVEL SYLLABUS

Module Code (Revision IV)	Revision IV (Module)	Module Code (Revision V)	Revision V (Module)
M1-R4	IT Tools and Business System	M1-R5	Information Technology tools and Network Basis
M2-R4	Internet Technology and Web Design	M2-R5	Web Designing & Publishing
M3-R4	Programming and Problem Solving Through 'C' Language	M1-R5	Programming and Problem Solving through Python
M4.1-R4	Application of .NET Technology	M1-R5	Internet of Things and its Applications
M4.2-R4	Introduction to Multimedia		
M4.3-R4	Introduction to ICT Resources		

- The above table shows the equivalence between the modules of old syllabus (Revision VI and V).
- Candidates would not be allowed to appear in the equivalent papers of the Revision IV (new syllabus), if they have already passed the relevant papers in earlier revision.
- Candidates would have to pass a total of 4 papers and one practical in order to qualify 'O' Level in Revision IV syllabus.

Document Version v1 dated 29th March, 2019



NIELIT Syllabus Booklet 'O' Level (IT)-Revision V

- In case, candidate has cleared examination as per Revision II and/or Revision III, the equivalency of Revision II with III and Revision III with IV will be done before the equivalency with Revision V is done.

- Candidates would be allowed exemption in equal number of papers which they have passed in Revision II or Revision III (old syllabus).

Document Version v1 dated 29th March, 2019



1, Ahilya Bai Marg, Pentinaka Chowk, Sadar, Cantt, Jabalpur, Madhya Pradesh, INDIA 482001

+917612620738

info@stalovsiuscollege.ac.in



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.



NIELIT Syllabus Booklet 'O' Level (IT)-Revision V

Accredited Institutes are allowed to submit the Registration Application Form online of their candidates one month beyond the cut off dates.

5.5. Auto-upgradation:

The candidates successfully completing all papers (Theory, Practical and Project) of a particular Level in a particular Examination and wish to appear in the next Examination for immediate higher Level are exempted from the above cut off dates. Such candidates can fill up examinations Form and Registration Forms for higher Levels subject to following conditions:-

- Combined Registration fee and Examination fee is paid online.
- The facility is available to the candidates appearing through Accredited Institutes and not for direct applicants. However the facility is available to a candidate who might have completed lower level as a direct candidate and wishing to appear for immediate higher level through Accredited Institutes.
- The facility is also not available to the candidates those who might be appearing through Accredited institute but have cleared lower level prior to the preceding exam (e.g. if a candidate has passed 'O' Level Exam in Jan, 2019, he would be eligible for this facility in case he wishes to appear for 'A' Level Examinations in July, 2019 through Accredited Institute. If, however, he had passed 'O' Level prior to Jan., 2019 Exams, this facility would not be available to him).
- This facility would also not be available to the candidate opting for Level jumping (e.g. from 'O' to 'B' or 'A' to 'C' Levels).

Once registered at a particular level, the registration is valid for ten consecutive examinations for 'O' Level, reckoned from the specific examination as indicated in the Registration allocation letter issued to the candidates.

Registration, by itself, does not entitle a candidate to appear for an examination at the Level concerned, unless all conditions, stipulated in the examination application form, and in any other notification, relevant to the examination are fulfilled by the candidate.

5.6. Re-registration:

Candidates who are not able to clear the level within the validity period of initial registration, are allowed to re-register for once, at the same level for another full term i.e. 5 years to clear the left over papers by submitting filled in Registration application and full Registration fee within one year of the expiry of the validity period of existing Registration.

6. PRACTICAL EXAMINATION SCHEME

The Practical Examination will be conducted by the NIELIT in reputed Institutions for all candidates. The institutes are obliged to facilitate the conduct of Practical Examinations and arrange infrastructure, support of its faculty and staff for the conduct of Practical Examination at their Centre. The practical examination scheme is as follows.

Number of Practical Examination	One
Duration of Practical Examination	Three hour duration including viva-voce

Document Version v1 dated 29th March, 2019



NIELIT Syllabus Booklet 'O' Level (IT)-Revision V

Max. Marks	100 = 80(Practical) + 20(Viva Voce)
Grading	Marks obtained by the students will be translated into the Grades as per the structure given Section 9.1.
Date(s)	Date(s) will be announced on NIELIT website.

The institutes are not allowed to charge any fee from the candidates, for the practical examination

7. HARDWARE REQUIREMENT FOR 'O' LEVEL COURSE

7.1. Computer configuration recommended

Processor	:	1 GHz or higher
RAM	:	1 GB or higher
HDD	:	100 GB or higher
Monitor	:	SVGA
Mouse	:	Windows compatible
Keyboard	:	Standard
NIC	:	Standard
Optical Drive	:	Standard
Speaker, Mic, Webcam	:	Standard
CD/DVD Writer	:	Standard

7.2. Printer

Laser printer / Inkjet Printer	:	Standard
Dot matrix printer	:	Standard
OHP /LCD Projector	:	Standard
MODEM, DIAL UP/DSL	:	Standard
SCANNER	:	Standard

Sufficient number of computers are standard networking are part of satisfying criteria for accreditation.

7.3. Networking

NIC	:	Standard
RJ-45 Connector	:	Standard
Crimping Tools	:	Standard
UTP/STP/Coaxial Fiber Optic	:	Standard
Cables and their connectors	:	Standard
8/16 port Hub/Switch	:	Standard
Wi-H Router	:	Standard

Document Version v1 dated 29th March, 2019



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

**Vedic Mathematics
Brochure
&
Course Module**



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR (M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported

CERTIFICATE COURSE ON

VEDIC MATHEMATICS

2022-23

Organized by
Department of Mathematics

Start form
28 Sep 2022

Duration: 30 Hours



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

ST. ALOYSIUS (AUTO) COLLEGE, JABALPUR
DEPARTMENT OF MATHEMATICS CERTIFICATE
COURSE VEDIC MATHEMATICS

Maximum Marks: 100

Time: 2 hours

Minimum Marks: 40

MODULE I – Multiplication

1. Ekadhikenpurven method (multiplication of two numbers of two digits)
2. Eknunenpurven method (multiplication of two numbers of three digits)
3. Urdhvatiragbhyam method (multiplication of two numbers of three digits)
4. Nikhilam Navtashchramam Dashtaha (multiplication of two numbers of three digits)
5. Combined Operations

MODULE II – Division and Divisibility

Part A: Division

1. Nikhilam Navtashchramam Dashtaha (two digits divisor)
2. Paravartya Yojyet method (three digits divisor)

Part B: Divisibility

1. Ekadhikenpurven method (two digits divisor)
2. Eknunenpurven method (two digits divisor)

MODULE III – Power and Root

Power: (i) Square (two digit numbers), (ii) Cube (two digit numbers).

Root: (i) Square root (four digit number) (ii) Cube root (six digit numbers)

REFERENCES:-

1. Vedic Mathematics, *Motilal Banarsi Das, New Delhi.*
2. Vedic Ganita: Vihangama Drishti-1, *Siksha Sanskriti Uthana Nyasa, New Delhi.*
3. Vedic Ganita Praneta, *Siksha Sanskriti Uthana Nyasa, New Delhi.*
4. Vedic Mathematics: Past, Present and Future, *Siksha Sanskriti Uthana Nyasa, New Delhi.*



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

ST. ALOYSIUS (AUTO) COLLEGE, JABALPUR DEPARTMENT OF MATHEMATICS

CERTIFICATE COURSE VEDIC MATHEMATICS

S. No.	Title	Maximum Marks	Minimum Marks
I	Theory	100	40

Note: Total duration of the course is 30 contact hours.



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

**Certificate Course on Right to Information and Filing RTI (Practical Approach)
Brochure
&
Course Module**



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

ST. ALOYSIUS COLLEGE (AUTONOMOUS)

Reaccredited 'A+' by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence by UGC

DST-FIST Supported & Star College Scheme by DBT

Jabalpur, Madhya Pradesh, India



Department of Political Science

Certificate Course in Right to Information and Filing RTI

Course Fees: 500

PRACTICAL APPROACH

Bank Details:

Beneficiary Name: Principal,

St. Aloysius College Autonomous Jabalpur

Credit Account No: 5201214000008

IFSC Code : CNRB0005201

Bank Name: Canara Bank

Branch: Gorakhpur, Jabalpur

Account Type: Current

Date of Commencement: 6 February 2023

Eligibility: Minimum 10+2

Duration: 30 Hrs (2 Credits)

Timing: 1.30-2.30 PM

Mode of Teaching: Hybrid

For Registration Click here:

Email: poli.sac@gmail.com

For Queries Contact: 8839436653, 9424086040, 7999709082



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.



St. Aloysius College (Autonomous)

Reaccredited 'A+' by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence by UGC

DST-FIST Supported & Star College Scheme by DBT

Jabalpur, Madhya Pradesh, India

Department of Political Science

Certificate Course on Right to Information and Filing RTI

PRACTICAL APPROACH

(02 Credits)

Module 1:

- a. Overview of Right to Information
- b. Scope of Right to Information Act, 2005

Module 2:

- a. Using the RTI Act to get "Information"- The Filing of the Request for obtaining Information
- b. What is covered under RTI Act
- c. Fees under RTI Act

Module 3:

- a. Disposal of the Request and the time limits for Compliance with the Request
- b. Penalty Provisions under RTI Act
- c. Compensation Provisions under RTI Act

Module 4:

- a. RTI Online Filing procedure
- b. RTI Offline Filing procedure



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

**Instrumentation and Analytical techniques in Chemistry
Brochure
&
Course Module**



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.



ST. ALOYSIUS' COLLEGE (AUTONOMOUS), JABALPUR

Reaccredited 'A' By NAAC (CGPA - 3.68/4.00) College With Potential For Excellence By UGC

DST-FIST Supported & Star College Scheme By DBT

Jabalpur, (Madhya Pradesh), India



Department
of Biotechnology
Govt. of India

PATRON

REV. DR. G. VAZHAN ARASU

(Principal)

CHAIR PERSON

DR. ANJALI DSOUZA

Vice Principal (Academics)

CONVENER

DR. SMARIKA LAWRENCE

(HOD Chemistry)

COURSE COORDINATOR

DR. AMITA CHHATRI

(Assistant Professor)

Certificate Course

On

**Instrumentation and Analytical Techniques
in Chemistry**

Organized by

Department of Chemistry

Sponsored By DBT Star College Scheme

DATE: 22/09/22 TO 30/09/22

TIME: 12:30 PM ONWARDS

Registration Fee : 250/-

COURSE MODULE

- UV-VIS SPECTROPHOTOMETRY
- FTIR SPECTROPHOTOMETRY
- X-RAY DIFFRACTION
- PHASE CONTRAST MICROSCOPY
- ELECTROPHORESIS
- GELDOC



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

DEPARTMENT OF CHEMISTRY

Details of Value Added Course

Certificate Course sponsored by Star College Scheme , DBT

Course Name:- "Instrumentation and Analytical Techniques"

Eligibility Criterion:- Open for all students

Duration:- 30 hours (2 credits)

Mark Scheme:- Total marks (Theory 50 and Practical 50)

There will be 6 (six) modules in this course which are as follows:-

Module I: UV- Vis. Spectroscopy: Introduction, principle, instrumentation and applications

Experimental- Spectroscopic analysis of ~~Azadirachta~~ *Azadirachta indica*

Synthesis of ~~Azadirachta~~ *Azadirachta indica* loaded silver nanoparticle

Module II: X- ray Diffraction: Introduction, principle, instrumentation and

applications **Experimental-** XRD analysis of prepared sample

Module III: FTIR Spectroscopy: Introduction, principle, instrumentation and

applications **Experimental-** FTIR Spectral analysis of solid compound

Module IV – Phase contrast Microscopy- Introduction, Basic Principle, Instrumentation and application.

Experimental- Dye exclusion test for cell viability

Module V – BOD(Biological Oxygen Demand) - Introduction, Basic Principle, Instrumentation and application.

Module VI – COD (Chemical Oxygen Demand) - Introduction, Basic Principle, Instrumentation and application.



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

**Finance for Non Finance Professional
Brochure
&
Course Module**



1, Ahilya Bai Marg, Pentinaka Chowk, Sadar, Cantt, Jabalpur, Madhya Pradesh, INDIA 482001

+917612620738



info@stalovsiuscollege.ac.in



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.



FINANCE FOR NON-FINANCIAL PROFESSIONAL

COURSE OUTCOME-

- TO UNDERSTAND THE IMPORTANCE OF ACCOUNTING , ITS SCOPE AND TECHNICAL TERMS OF BUSINESS , VARIOUS PRINCIPLES OF THE DOUBLE ENTRY SYSTEM AND ITS APPLICATION
- TO ACQUAINT STUDENTS WITH THE CAPACITY TO CREATE A STATEMENT OF PROFIT & LOSS AND OTHER COMPREHENSIVE INCOME AND A STATEMENT OF FINANCIAL POSITION
- TO FAMILIARISE THE STUDENTS WITH ACCOUNTING SOFTWARE FEATURES AND APPLICATIONS

THIS COURSE IS BENEFITED FOR ANYONE WHO WANTS TO LEARN ACCOUNTING AT ANY LEVEL FROM BASIC TO ADVANCE , AS BASIC ACCOUNTING WILL HELP TO MAINTAIN OWN ACCOUNTS AND FINANCIAL STATEMENTS AND ADVANCED ACCOUNTING WILL HELP TO UNDERSTAND INDUSTRIAL REQUIREMENT OF ACCOUNTING !

ELIGIBILITY CRITERIA : STUDENT SHOULD CLEAR ATLEAST
12TH / ANY OTHER DISCIPLINARY

DURATION: 2 CREDITS 30 HOURS

COURSE FEE : PART I = ₹500

DATE - 12TH SEPTEMBER 2022 , TIME- 4:45 TO 5:45 PM

For more information contact –
DR. YOGESH ASHAR - 6260282141
DR. SARITA GOEL - 9425801879

JOIN TELEGRAM GROUP FROM THE LINK -
<https://t.me/+3vt8a5bz2bjkymq1>



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

Finance for Non-Finance Professional

Certificate Course

2022-2023

Course Content: (Fundamentals of Accounting)

Module Name	Description of the Content	Duration in Hours
Module I	An Introduction to Accounting, The Double Entry Accounting System, & Recording Transactions using Debits and Credits. The process of accounting through a case study.	10
Module II	Preparation of Final Accounts, Analysis and Interpretation of these accounts through a case study.	10
Module III	Fundamentals of Tally ERP9 (Accounting software) - Company Features, Configuration, Gateway of Tally getting functions with Tally.ERP9, Creation / setting up of Company in Tally.ERP9,	10
TOTAL		30

+ Course Content: Part-II (Applications of Accounting)

Module Name	Description of the Content	Duration in Hours
Module I	Introduction of Financial Statements - Interpretation & Analysis through a case study.	10
Module II	Presentation of Accounting Information through Ratio Analysis.	10
Module III	Tally ERP9 - Gateway of Tally (Practical Session) <ul style="list-style-type: none">● Account information: Ledgers and Groups creation● Inventory information: Determination of stock groups, Stock items and stock units● Accounting vouchers Entries: Receipt Vouchers, Payment Vouchers, Purchase Vouchers, Sales voucher, Contra	10



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

	<p>Vouchers, Journal Vouchers, Debit Note, Credit Note.</p> <ul style="list-style-type: none"> Report: Trial Balance, Day Book, Accounts Book, Statement of Accounts, Inventory Book, Trading and Profit & Loss Account, Balance Sheet, 	
TOTAL		30

Assessment & Evaluation: Part I and Part II		
Maximum Marks: 100		
Continuous Comprehensive Evaluation (CCE):20 Marks		
External Exam: 80 marks		
Internal Assessment: Continuous Comprehensive Evaluation (CCE):10+10 Marks	Part – I Marks - 10	Part – II Marks -10
	Class Test- Assignment/ Presentations Practical on Tally (Lab)	Class Test and Practical on Tally (Lab)
External Assessment: 40+40 marks Time: 2:00 hours	Part – I Marks - 40	Part – II Marks -40
	Theory 15 Marks Practical- 25 marks	Theory 15 marks Practical- 25 marks



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

**Taxation for Beginners
Brochure
&
Course Module**



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.



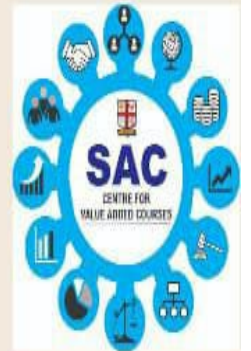
ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.



Add On Certificate Course on

Taxation for Beginners

Patron

Rev. Dr. G Vazhan Arasu

Principal

Chairperson

Dr. Sonal Rai

In-Charge 2nd Shift

Dr. Rupali Ahluwalia

Head, Department of Commerce

Resource Person

Mr. Harbaksh Moolchandani

Dr. Dileep Koshta

Book your Spot

@Rs500 only for 30
hours of Rigorous
Learning

Course Highlights

1. Complete elementary and advanced knowledge of Income Tax.
2. In parlance with current GST pattern.
3. Tips on how to save tax legally.
4. 100% assured understanding of technical and theoretical concepts.
5. Get comprehensive understanding from a 20+ years experienced teacher.
6. Course Marksheet to be issued after assessment.

Module 1

Basic concept of
Income Tax Structure
Provision of Income
Tax Act
Tax Calculation of
Different Assesses

Module 2

Return Filing Both
Online and Offline
Clearance of
Technical and
Theoretical Concepts



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

Taxation for Beginners

Module 1

- Basic concept of Income Tax Structure .
- Provision of Income Tax Act.
- Tax Calculation of Different Assesses.

Module 2

- Return Filling Both Online and Offline .
- Clearance of Technical and Theoretical Concepts .



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

**Global Education Partner(GEP)
for Global Understanding Programme (GUP)
Language & Culture
&
Course Module**



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

GLOBAL EDUCATION PARTNERS (GEP) FOR GLOBAL UNDERSTANDING PROGRAMME (GUP)



We invite the institutions to be members of Global Education Partners to experience global connections and learning.

St. Aloysius College (Autonomous), Jabalpur invites the institutions to be members of Global Education Partners to experience global connections and learning, an open path to a better understanding of a more interconnected and interdependent world to encourage the development of civic engagement and the search for collective solutions to shared problems.



ABOUT GEP

Global education aims to foster learning communities in which learners and educators collaborate and share ideas on how to address global challenges. The objective of GEP is stimulating and motivating learners and educators to approach global issues through innovative teaching and pedagogy. Connecting with the world around is essential in the 21st century. This is necessary because having knowledge of global change stimulates one's awareness of the ever-changing space, which is essential to broaden one's perspective and cultivate a cross-cultural work ethic that ultimately benefits the growth of nations.

ABOUT GUP

The Global Understanding Programme has been designated as GEP's flagship program. GUP is an initiative to share a virtual classroom that invites students and faculty fraternity from all over the world to have discussions, chats, and collaborative student projects. The goal of the programme is to provide students with both personal and global experiences that will broaden their perspectives on other cultures and help them develop the knowledge, skills, and attitudes necessary to thrive in a universal multiethnic civilization. The purpose of the Global Understanding Programme initiative is to encourage the formation of new interdisciplinary partnerships, with a particular focus on exploration that spans both disciplinary and geographical boundaries.



St. Aloysius (Autonomous) College [SAC], Jabalpur (Reaccredited 'A+' by NAAC (CGPA 3.68/4.00), College with Potential for Excellence by UGC, DST-FIST supported & Star College Scheme by DBT) was established in 1951 with the motto 'Virtus in Arduo' and is affiliated to Rani Durgavati Vishwavidyalaya, Jabalpur, Madhya Pradesh. SAC actively seeks national and international institutions to partner on global education programs in the areas of global environment, global commerce, global economy, global politics, and global language, to promote cross-cultural understanding and communication.



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

SOP

- The Global Understanding initiative will include contributions from every GEP member.
- It is required of the member institutions that each institution nominates a Teacher coordinator as well as a tech-in-charge from their respective institutions.
- Faculty and students from the participating institutes are invited to take part in the programme through the use of a virtual platform that allows for one-on-one interaction between the participants. Ten to twelve pupils are required to enroll from each institution.
- The students will intern with two different national or international partner institutions or universities, for three to four weeks each year. The two institutions will "connect" through video conferencing and text chat. Every day in a linking class, half of the students will participate in a group video conference with their partners, while the other half will engage in individual text chats with their partners (preferably on SLACK). The groups will switch their linking mode in the next week.
- Students will gain a greater understanding of the topic's diversity through group talks while gaining more in-depth viewpoints through one-on-one conversations. During their three to four weeks with a given partner university, students will engage in structured discussions and joint projects on a predetermined topic



GUP 2022-23

THEME: Language and culture

SUB THEME:-

1. Introduction
2. Family and tradition
3. Cultural influence on language and dialects
4. Meaning of life and religion
5. Cultural stereotypes and prejudices
6. Collaborative projects



INTERNATIONAL +919039893362
NATIONAL +919479755836/+919826151357



gep@staloyuscollege.ac.in



staloyuscollege.ac.in/gep

- The programme will be conducted twice in a year in fall and spring seasons
- The student will achieve 2 credits
- The fees of the Programme: Rs 150/- (for Indian students) \$2 (for International students)

OUTCOMES



Significant increase in cultural competencies, intercultural communication, and collaboration skills.



Providing high-impact, global experiences that help students build the skills, knowledge, and flexibility necessary to thrive in an interconnected world.



Increased national / international awareness and experiences.

FORTHCOMING GLOBAL THEME

- POLITICS
- ECONOMY
- BUSINESS
- ENVIRONMENT
- EDUCATION



1, Ahilya Bai Marg, Pentinaka Chowk, Sadar, Cantt, Jabalpur, Madhya Pradesh, INDIA 482001

+917612620738

info@staloyuscollege.ac.in



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

SYLLUBUS Of GEP

2022-23

The Global Understanding Programme (GUP) has been designated as flagship of Global Education Partnership Program (GEP). It aims to foster learning communities in which learners and educators collaborate and share ideas on how to address global challenges. The objective of GEP is stimulating and motivating learners and educators to approach global issues through innovative teaching and pedagogy.

Course Outcome:

- The goal of the program is to provide students with both individual and global experiences that will broaden their perspectives on other cultures and help them develop the knowledge, skills, and attitudes necessary to thrive in a universal multi- ethnic civilization.
- This program is to encourage the formation of new interdisciplinary partnerships, with a particular focus on exploration that spans both disciplinary and geographical boundaries.
- It will increase cultural competencies, intercultural communication and collaboration Skills.
- It provides high impact in global experiences that help students build the skills, knowledge and flexibility necessary to thrive in an interconnected world.

It increases national/ international awareness and experiences.

Credit: 2 Credits.

Duration: 30 Hours

Module : Language and Culture

- 1, **Language and Culture:** Introduction, Importance, Elements, Diversity
2. **Family and Tradition:** Values and Beliefs, Norms, Symbols, Rituals
3. **Cultural Influence on Language and Dialects:**
Language: Regional Language, Social Class Language, Individual Language and Situational Language.
Dialect: Regional Dialect, Sociolects, Idiolects and Ethnolects.
4. Meaning of Life and Religion:
5. Cultural Stereotypes and Prejudices
6. Collaborative Projects.



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

DCA Brochure & Course Module



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.



DEPARTMENT OF COMPUTER SCIENCE IS ORGANIZING DIPLOMA IN COMPUTER APPLICATIONS (DCA)

THIS COURSE WILL OFFER:

- FUNDAMENTALS OF COMPUTER & OFFICE AUTOMATION
- BASICS OF COMPUTER HARDWARE AND NETWORKING
- PROGRAMMING IN C
- DESKTOP PUBLISHING
- WEB PAGE PROGRAMMING USING HTML
- ACCOUNTING AND TALLY PRIME
- DATABASE MANAGEMENT SYSTEM

LIMITED SEATS AVAILABLE.!

**COURSE DURATION:
01 YEAR (02 SEMESTERS)**

**ONLINE AND OFFLINE
BOTH MODES WILL BE
AVAILABLE**

COURSE FEES: 5000 ONLY

REGISTRATION LINK: <https://forms.gle/oryi3WzSMtwDi5o2A>

OR CONTACT: 9826668629, 6232862697



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

DCA I SEMESTER

Subject code	Subject Name	Credit	University Exam Marks	Internal Marks	Total Marks
DCA101	Fundamental of Computer and Office Automation	4	70	30	100
DCA102	Basic of Computer Network	4	70	30	100
DCA103	Programming in C	4	70	30	100
DCA104	Accounting and Tally Prime	4	70	30	100
DCA105	Practical Based on DCA101 and DCA 104	2	30	20	50
DCA106	Practical Based on DCA103	2	30	20	50
	Total	20	340	160	500

DCA II SEMESTER

Subject code	Subject Name	Credit	University Exam Marks	Internal Marks	Total Marks
DCA201	Web Page Programming using HTML	4	70	30	100
DCA202	Desktop Publishing	4	70	30	100
DCA203	Data Base Management Systems	4	70	30	100
DCA204	Project	4	70	30	100
DCA205	Practical Based on DCA201	2	30	20	50
DCA206	Practical Based on DCA203	2	30	20	50
	Total	20	340	160	500
	Grand Total(SEM I +SEM II)	40	680	320	1000



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

DCA 101

Fundamentals of Computer and Office Automation

UNIT – I: Brief history of development of computers, Computer system concepts, Computer system characteristics, Capabilities and limitations, Types of computers Generations of computers, Personal Computer (PCs) – evolution of PCs, configurations of PCs- Pentium and Newer, PCs specifications and main characteristics. Basic Components of a computer system - Control unit, ALU, Input/output functions and characteristics, memory – RAM, ROM, EPROM, PROM and other types of memory, Number System.

UNIT – II: Input/output & Storage Units:-Keyboard, Mouse, Trackball, Joystick, Scanners, Digital Camera, MICR, OCR, OMR, Bar-code Reader, Voice Recognition, Light pen, Touch Screen, Printers & types - Daisywheel, Dot Matrix, Inkjet, Laser, Line Printer, Plotter, Sound Card and Speakers, Storage fundamentals - Primary Vs Secondary Data Storage and Retrieval methods - Sequential, Direct and Index Sequential, Various Storage Devices - Magnetic Tape, Magnetic Disks, Cartridge Tape, Hard Disk Drives, Floppy Disks (Winchester Disk), Optical Disks, CD, CD-R, CD-RW, Zip Drive, flash Physical structure of floppy & hard disk.

UNIT – III: Software and its Need, Types of Software - System software, Application software, System Software - Operating System. Computer languages: Types of languages [HL, ML and LL], Advantages and limitations, Types of programming language [machine language, assembly language, procedural language, object oriented language, 4GL- Advantages and limitations.

UNIT – IV: MS. Word- Creating, editing, saving and printing text documents, Font and paragraph formatting, Simple character formatting, Inserting tables, smart art, page breaks, Using lists and styles, Working with images, Using Spelling and Grammar check, Understanding document properties, Mail Merge.

UNIT – V: MS. Excel- Spreadsheet basics, Creating, editing, saving and printing spreadsheets, Working with functions & formulas, Modifying worksheets with color & auto formats, Graphically representing data : Charts & Graphs.

MS. Power Point- Opening, viewing, creating, and printing slides, Applying auto layouts, Adding custom animation, Using slide transitions, graphically representing data: Charts & Graphs, Creating Professional Slide for Presentation.

Text Book:

- Anurag Seetha, "Introduction to Computers and Information Technology", Ram Prasad & Sons, Bhopal.
- S.K. Basandra, "Computers Today", Galgotia Publications.
- Chetan Shrivastav "Fundamental of IT"
- P.K. Sinha, "Fundamental of Computers"
- System Analysis and Design - Elias M. Awad.
- System Analysis and Design - Alan Dennis & Barbara Haley Wix



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

Basic of Computer Network

UNIT - I

INTRODUCTION: Network applications, network hardware, network software, reference models: OSI, TCP/IP, Internet, Connection oriented network - X.25, frame relay. **THE PHYSICAL LAYER:** Theoretical basis for communication, guided transmission media, wireless transmission, the public switched telephone networks, mobile telephone system.

UNIT - II

THE DATA LINK LAYER: Design issues, error detection and correction, elementary data link protocols, sliding window protocols, example data link protocols - HDLC, the data link layer in the internet. **THE MEDIUM ACCESS SUBLAYER:** Channel allocations problem, multiple access protocols, Ethernet, Data Link Layer switching, Wireless LAN, Broadband Wireless, Bluetooth

UNIT - III

THE NETWORK LAYER: Network layer design issues, routing algorithms, Congestion control algorithms, Internetworking, the network layer in the internet (IPv4 and IPv6), Quality of Service.

UNIT - IV

THE TRANSPORT LAYER: Transport service, elements of transport protocol, Simple Transport Protocol, Internet transport layer protocols: UDP and TCP.

UNIT - V

THE APPLICATION LAYER: Domain name system, electronic mail, World Wide Web: architectural overview, dynamic web document and http. **APPLICATION LAYER PROTOCOLS:** Simple Network Management Protocol, File Transfer Protocol, Simple Mail Transfer Protocol, Telnet.

TEXT BOOKS:

1. A. S. Tanenbaum (2003), Computer Networks, 4th edition, Pearson Education/ PHI, New Delhi, India.

REFERENCE BOOKS:

1. Behrouz A. Forouzan (2006), Data communication and Networking, 4th Edition, Mc Graw-Hill, India.
2. Kurose, Ross (2010), Computer Networking: A top down approach, Pearson Education, India



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

DCA 103

Programming in C

Unit I

Classification of programming language: Structured programming concepts, modular programming, top-down programming approach. Problem solving using computer: coding, compilation, debugging and testing, documentation, implementation and maintenance. Problem-Solving Techniques: Steps for Problem-Solving, Design of Algorithms, Definition, Features of Algorithm. Flowcharts, Basic Symbols used in Flowchart Design. Basics of C: History of C, salient Features of C, C language IDE'S: What is IDE's Types of IDE's, Structure of a C Program, a Simple C Program, Compiling a C Program, Link and Run the C Program.

Unit II

Variables and Constants: Character Set, Identifiers and Keywords, Rules for Forming Identifiers, Data Types, Qualifiers, Variables, Declaring Variables, Initializing Variables, Constants, Types of Constants, Operators, expressions, operator precedence and associativity. Managing input/output function: formatted and unformatted. Conditional Statements and Loops: Decision Control Statements: if Statement, switch Statement, Loop Control Statements: while Loop, do-while Statement, for Loop, Nested Loop, goto Statement, Break Statement, Continue Statement.

Unit III

Array: one dimensional array Declaration, Initialization, insertion, deletion of an element form an array, finding the largest/smallest element in an array, two dimensional arrays, addition / multiplication of matrices. String: Declaration and Initialization of Strings, String formatted specifiers, Array of Strings, String library function (strlen, strcpy, strcmp, strcat, strlen, strrev), Storage Class: Need & types of Storage class.

Unit IV

Functions: Definition of a Function, types of function, Declaration of a Function, Function Prototypes, passing arguments to a function, call by value, call by reference, command line argument, recursion. Pointers: pointers and their characteristics, address and indirection operators, pointer Type declaration and assignment, pointer arithmetic, passing pointers to functions, array of pointers, introduction to pointer to pointer.

Unit V

Structures: Declaration of Structures, Accessing the Members of a Structure, Initializing Structures, Structures as Function Arguments, Structures and Arrays, Preprocessor: What is pre-processor, Type of Pre-processor, Macros, File Inclusion, Conditional Compilation, Other directives. Dynamic memory allocation Memory management, Types of memory allocation, Allocation (malloc, calloc, realloc), Deallocation(free) Command Line Arguments, Enumeration, typedef.



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

Reference Books:

- D. Ravichandran, programming New Age International, 1996.
- E. Balaguruswamy, Tata McGraw Hill Pub.
- Y.Kanitkar, Let us C. BPB Publication, 4th Ed. 2002.
- Rajiv Dharaskar, Hidden Treasure of C, BPB Publication, 1995.
- Shridhar B. Dandin, Programming – Pragya Publication (Hindi Medium)



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

DCA 104 ACCOUNTING & TALLY PRIME

Unit I

Fundamentals of Accounting Introduction, Accounting Terms, Accounting Assumptions, Concepts and Principles, Double Entry System of Accounting, Types of Accounts, Golden Rules of Accounting, Source Documents for Accounting, Allocation of Expenses and Incomes Using Cost Centres, Recording of Stock Transfers with Godown Details, Activating Batch-wise Details, Price Level and Price Lists.

Unit II

Introduction to Tally Prime, Company Creation, Getting Started with Tally Prime, Shut a Company, Select a Company, Alter Company Details, Company Features and Configurations, Cheque Management & Printing, Manual Bank Reconciliation.

Unit III

Migration Tally, ERP 9 Data to Tally Prime Chart of Accounts Creating Inventory Masters, Migration Tally ERP9 Data to Tally Prime, Chart of Accounts, Ledger Creation, Group Creation, Deletion of Ledgers and Group, Creating Inventory Masters, Creation of Stock Group, Creation of Units of Measure, Creation of Stock Item, Creation of Godown, Stock Category

Unit IV

Recording Accounting Vouchers with bill-wise details in Tally Prime, Enabling GST and Recording GST Transaction in Tally Prime, Creation of Accounting Masters, Creation of Inventory Masters, Recording GST complaint transactions, Generating GST Returns in Tally, Creation of Accounting Masters, Creation of Inventory Masters, Hierarchy of Applying Tax Rate Details, Recording GST compliant transactions, Generating GST Returns

Unit V

Enabling TDS and Recording TDS Transactions, Creation of TDS Masters and Recording /transactions, Order Processing and Recording of Inventory Vouchers, Purchase Order Processing, Sales Order Processing, Activating Credit Limit and Exceeding the Credit Limit, Activating the Credit Limit, Exceeding the Credit Limit, Backup of Data, Restoring Data From Backup File, Export and Import of Data, Exporting of Data in Other Available formats.

Text Book

1. Learn Tally Prime with GST Book by Gaurav Agrawal
2. TALLY PRIME 2.0 (Paperback, V MISHRA)



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

DCA 201

Web Page Programming using HTML

Unit I

WebPages; Hyper Text Transfer Protocol (HTTP); File Transfer Protocol (FTP) Domain Names; URL, Website, Web browser, Web Servers; Basic Tags of HTML: HTML, HEAD, TITLE, BODY, Heading tag (H1 to H6) and attributes, FONT tag and Attributes, P, BR, Comment in HTML (<! >)

Unit II

Formatting Text (B, I, U, EM, BLOCKQUOTE, PREFORMATTED, SUB, SUP, STRIKE), Ordered List-OL Unordered List, ADDRESS Tag; Creating Links: Link to other HTML documents or data objects, Links to other places in the same HTML documents, Links to places in other HTML documents; Anchor Tag <A HREF> and <A NAME>, Inserting Images Image Link, Horizontal Rules <HR ALIGN, WIDTH, SIZE, NOSHADE>

Unit III

Tables: Creating Tables, Border, TH, TR, TD, CELSPACING, CELLPADDING, WIDTH, COLSPAN, CAPTION, ALIGN, CENTER; Frames: Percentage dimensions, Relative dimensions, Frame - Src, Frameborder, height and width, Creating two or more rows Frames <FRAMESET ROWS >, Creating two or more Page 3 Columns Frames <FRAMESET COLS >, <FRAME NAME SRC MARGINHEIGHT MARGINWIDTH SCROLLING AUTO NORESIZE>, <NOFRAMES>, <NOFRAMES>;

Unit IV

Forms: Definition, Form Tags: FORM, <SELECT NAME, SIZE, MULTIPLE / SINGLE><OPTION></SELECT>, <TEXTAREA NAME ROWS COLS >, </TEXTAREA>, METHOD, CHECKBOX, HIDDEN, IMAGE, RADIO, RESET, SUBMIT, INPUT<VALUE, SRC, CHECKED, SIZE, MAXLENGTH, ALIGN>;

Unit V

CSS, the Benefits of CSS ,How CSS Works ,Rule Syntax ,Adding Styles to a Document ,Key Concepts, Specifying Values, Browser Support , Type (Element) Selector ,Font Family ,Font Size ,Other Font Settings, Text Transformation (Capitalization) Text Decoration, Line Height, Text Alignment Properties, Text Spacing, Text Direction, Margins, Borders, Padding, Foreground Color, Background Color, Background Images, working with tables

TEXT BOOK:

1. INTERNET TECHNOLOGY AND WEB DESIGN - Satish Jain, Shashank Jain, Shashi Singh, and M. Geetha Iyer. First Edition 2010, BPB Publications.
2. COMPUTERS AHEAD CBSE CLASS X, Rajiv Mathur, Orient BlackSwan.

SUGGESTED FURTHER READINGS:

1. HTML : A Beginner's Guide, Fourth Edition, Wendy Wilard, Mc Graw Hill.
2. Internet and Intranet Engineering – Daniel Minoli, Eight Reprint 2007, Tata McGraw-Hill.
3. Internet and Web Page Design – P.D. Murarka, BPB Publications.
4. HTML Right from the Start - A .Whyte, BPB Publications.
5. HTML 5 and CSS 3 Made Simple – Ivan Bayross, BPB Publications





ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

DCA 202

Desktop Publishing

Unit-I

DTP, Introductions to Printing, Types of Printing, Offset Printing, Working of offset Printing, Transparent Printout, Negative & Positives for Plate were making, Use of Desk Top Publishing in Publications, Importance of D.T.P in Publication, Advantage of D.T.P in Publication, Mixing of graphics & Image in a single page production, Laser printers - Use, Types, Advantage of laser printer in publication.

Unit -II

Introductions To Page Maker, Page Maker Icon and help, Tool Box, Styles, Menus etc., Different screen Views, Importing text/Pictures, Auto Flow, Columns, **Page Layout** Different page format / Layouts, Newspaper page format, Page orientations, Columns & Gutters, Printing in reduced sizes.

Unit -III

Master Pages and Stories, Story Editor, Menu Commands and short-cut commands, Spell check, Find & Replace, Import Export etc., Fonts, Points Sizes, Spacing etc., Installing Printers, Scaling (Percentages), Printer setup, Use of D.T.P. in Advertisements, Books & Magazines, News Paper, Table.

Unit -IV

Introduction to Adobe Photoshop & Documents, Various Graphic Files and Extensions, Vector Image and Raster Images, Various Colour Modes and Models

Unit -V

Introduction to Screen and Work Area, Photoshop Tools & Palettes ,Use of Layers & Filters, Working with Images.

TEXT & REFERENCE BOOKS:

1. PAGE MAKER 4.0 & 5.0 BY B.P.B. PUBLICATIONS.
2. PRAKHAR COMPLETE COURSE FOR DTP (CORELDRAW, PAGEMAKER, PHOTOSHOP)



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

DCA203

Data Base Management Systems

UNIT – I

Introduction: Characteristics of database approach, data models, DBMS architecture and data independence. E-R Modeling: Entity types, entity set, attribute and key, relationships, relation types, roles and structural constraints, weak entities, enhanced E-R and object modeling, Sub Classes: Super classes, inheritance, specialization and generalization.

UNIT – II

File Organization: Indexed sequential access files, implementation using B++ trees, hashing, hashing functions, collision resolution, extendible hashing, dynamic hashing approach-implementation and performance.

UNIT – III

Relational Data Model: Relational model concepts, relational constraints, relational algebra. SQL: SQL queries, programming using SQLEER and ER to relational Mapping: Data base design using EER to relational language.

UNIT – IV

Data Normalization: Functional dependencies, Normal form up to 3rd normal form. Concurrency Control: Transaction processing, locking techniques and associated, database recovery, security and authorization. Recovery Techniques, Database Security

Text Books:

1. R. Elmarsri and SB Navathe, "Fundamentals of Database Systems", Addison Wesley, 4th Ed., 2004

Reference Books:

1. Abraham Silberschatz, Henry Korth, S. Sudarshan, "Database Systems Concepts", 4th Edition, McGraw Hill, 1997.

2. Jim Melton, Alan Simon, "Understanding the new SQL: A complete Guide", Morgan Kaufmann Publishers, 1993. A. K. Majumdar, P. Battacharya, "Data Base Management Systems", TMH, 1996.

3. Bipin Desai, "An Introduction to database Systems", Galgotia Publications, 1991.



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

**Creative Approach to Peace for Character Formation and Holistic Development
Brochure
&
Course Module**



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.



ST. ALOYSIUS COLLEGE (AUTONOMOUS), JABALPUR

Presents

CERTIFICATE COURSE ON

Creative Approaches to Peace for Character Formation and Holistic Development

Sponsored By



UNITED BOARD

FOR CHRISTIAN HIGHER EDUCATION IN ASIA

1922-2022





ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

Certificate Course entitled "Creative Approaches to Peace"

Credits: 02

Duration: 30 hrs

Modules: 05

Participants: 30

Frequency: Twice

Eligibility: Open to all

Module 1 Introduction to the domain of peace and conflict 4 hours

Conflict, violence, peace, durable peace, fragile peace, durable peace, peacemaking, peacebuilding, conflict resolution, conflict transformation, etc.

Module 2 Conflict Analysis and Management 6 hours

Responses to violence, identifying structural and secondary violence, conflict analysis, why we need conflict analysis, lenses of conflict analysis, conflict analysis models - conflict tree, conflict mapping, stages and dynamics of conflict, and the onion model

Module 3 Different forms of Arts and Peace- I 6 hours

Mobilising art approaches for self-expression, diffusing tension, healing traumatic experiences, building bridges

Overcoming inhibitions, learning the fundamentals by activity based learning- dance, singing, playing music

Module 4 Different forms of Arts and Peace- II 6 hours



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

Learning the fundamentals by activity based learning- storytelling, creating fine art pieces, role playing

Module 5 Student Projects

8 hours

Students will be formed into teams and will be asked to come up with their own arts-based peacebuilding projects for specified conflict contexts and put up a performance for the public. This shall be the basis for the final evaluation.

Case study, Role playing and fish bowls would be used as pedagogical tools to make students understand viewpoints from different perspectives.



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

**Certificate Course On Vocal & Instrumental Music
Brochure
&
Course Module**



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.



St. Aloysius' College (Autonomous), Jabalpur

Re-Accredited 'A+' Grade By NAAC

College with Potential for Excellence

Department of Education

Certificate Course on Vocal and Instrumental Music 2022-23

Course Duration 30 hrs

Course Objectives

- To cultivate an analytical, creative, and intuitive comprehension of instrumental music.
- To offer guidance and practical experience to equip students for a professional career in instrumental music.

Module I

Fundamentals of Music

Module II

Genre Exploration

Module III

Hindustani Classical Music Forms

Module IV

Instrumental Music Techniques

Module V

Rhythmic Structures and Application



For Registration

(Contact :- Dr. Tapsi Nairaj.)

Dept. of Education M.no: 9425386190



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

Vocal & Instrumental Music

Unit 1- Detailed Knowledge Of The Salient Features Of Ragas & Comparative Study

Prescribed Ragas: Bilawal, ~~Alhaiya~~ Bilawal, Bhairav, Kafi, Yaman, Khamai, Asawari, Bhupali, Deshkar, Brindabani, Sarang, Malkauns, Bibhag, Bhimralasi, Bageshri, Des, Jaijaiwanti, Bankali, Hameer, Kedar, Kamod, Chayanat, Todi, Multani, Gaud Sarang, Patdeep, Purvi Dhanashri, Shuddha Sarang.

Unit 2- Detailed Knowledge Of The Salient Features Of Talas And Comparative Study Prescribed Talas: Dadra, Keharwa, Rupak, Teeyra, Jhapata, Sultala, Ektala, Chautala, Teentala, Tilwada.

Dhamar, Jhumra, Ada Chutala.

Unit 3- Understanding Of Musical Terms:

Nad, Shruti, Swara, Thaas, Vadi, Samvadi, Anuvadi, Vivadi, Jati, Varna, Alankar, Shaya, Tana, Gamak, Meend, Kan, Krintan, Soot, Zamzama, Ghaseet, Kaku, Avirbhav, Tirobhav.

Unit 4- Physics Of Sound:

Pitch, Intensity, Timbre, Vibration, Forced Vibration, Free Vibration, Just Intonation, Equally Tempered Scale, Harmony, Melody, Polyphony

Unit 5- Musical Forms:

Gram, Murchana, Gandharva, Gan, Nibhadha-Anibhadha, Jati, Gayan, Prabandha, Dhrupad, Dhamar, Khayal, Tarana, Tappa, Chaturang, Maseet Khani Gat, Bazakani Gat, Alap, Bol-Alap, Jod-Alap, Vilambit Gat, Druv Gat, Jhala.

Unit 6- Laya And Tala:

Laya- Meaning, Vilambit, Madhya, Druv.

Layakari - Dungan, Tigan, Changan, Panchgun, Chagan, Ada, Kud, Biad, Tala - Meaning, Avartan, Matra, Tali, Khali, Sam, Vibhag.

Das Pranas Of Tala.

Unit-7 Study Of Following Texts:

Natya Shastra, Brihadheshi, Sangeet Makarand, Sangeet Ratnakar, Swarm Mel Kala Nidhi, Raga, Vibodh, Raga Tarangini, Sangeet Parijat, Chaturdandi Prakashika.

Unit-8 Contribution Of Musician/Scholars:

Tansen, Amir Khusru, Jaidev, Sadarang, Adarang, Mansingh Tomar, V.N. Bhatkhande, V.D Paluskar, S.N Batanjankar, Omkar Nath Thakur, Haddu-Hassu Khan, Bade Gulam Ali Khan, Abdul karim Khan, Vilayat Hussain Khan, Allaudin Khan, Mushtaq Ali Khan.



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

DNA barcoding - from sequences to species

Brochure

&

Course Module



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

DEPARTMENT OF BIOTECHNOLOGY

Certificate Course

Topic: DNA Barcoding -from sequences to

species



Objective

Students will receive hands-on experience of different molecular biology techniques like electrophoresis, DNA isolation, PCR, DNA sequencing. Along with this students will also understand different bioinformatics tools. Students will receive theoretical and practical background to understand, perform and critically evaluate the use of DNA barcodes and DNA barcoding in biodiversity research.

Required Skills:

Basic knowledge of molecular biology and Bioinformatics.

Maximum number of participants:

30 students

Target group:

Undergraduates and Postgraduates

Assignment and credits:

The course is equivalent to 4 credits. A written exam and viva.

Course Fee:

500/-

Duration: (30 Days)

Module 1: September-October

Module 2: February

For more information regarding the certificate course contact
Department of Biotechnology





ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

Department of Biotechnology

Certificate Course

Topic: DNA barcoding - from sequences to species

Background:

DNA barcoding is a standard gene fragment for species identification. It has been developing rapidly in recent years, and become a useful tool for biodiversity investigation and monitoring, and molecular phylogeny and evolution. Applications of DNA barcoding include identification of new species, safety assessment of food, identification and assessment of cryptic species, detection of alien species, identification of endangered and threatened species, linking egg and larval stages to adult species, securing intellectual property rights for bio resources, framing global management plans for conservation strategies and elucidate feeding niches. DNA barcode markers can be applied to address basic questions in systematics, ecology, evolutionary biology and conservation, including community assembly, species interaction networks, taxonomic discovery, and assessing priority areas for environmental protection.

Module 1:

It consist of theory and practical classes

Theory:

1. Methods for the isolation of Nucleic acid
2. Agarose gel electrophoresis
3. Quantification of Nucleic acid
4. PCR: its type and application
5. Purification of Nucleic acid.
6. Conventional Nucleotide Sequencing techniques
7. Next Generation sequencing methods

Practicals:

1. Isolation of genomic DNA from provided sample (Fungi and bacteria).
2. Qualitative and quantitative estimation of DNA.
3. PCR amplification of ITS2 region and 16S rRNA gene.
4. Purification of amplified gene by using silica based DNA binding column.
5. Qualitative and quantitative estimation of purified PCR product.
6. Nucleotide sequencing of ITS2 region and 16S rRNA.

Module 2:

It consist of theory and practical classes

Theory:

1. Introduction of National Center for Biotechnology Information (NCBI).
2. Introduction of biological search engine- Entrez
3. Similarity search using the Blast and interpretation of the results.
4. Phylogenetic analysis using web tool.



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

Practicals:

1. To perform the BLAST of ITS2 region and 16S rRNA sequence generated by sequencing.
2. Pair-wise sequence alignment by using Clustal W.
3. Phylogenetic analysis of nucleic acid by using MEGA Align software.
4. Primer Designing by using software

Provided skills:

They will receive hands-on experience of different molecular biology techniques like electrophoresis, DNA isolation, PCR, DNA sequencing. Along with this students also understand different bioinformatics tools. Students will receive theoretical and practical background to understand, perform and critically evaluate the use of DNA barcodes and DNA barcoding in biodiversity research

Required skills:

Basic knowledge of molecular biology and Bioinformatics.

Maximum number of participants: 30 students

Target group: UG and PG students

Assignment and credits: The course is equivalent to 4 credits. A written exam and viva.

Course Fee: 500/-

Duration:

Module 1: September-October

Module 2: February





ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

**Innovative Zoological Practices (Advance).
Brochure
&
Course Module**



1, Ahilya Bai Marg, Pentinaka Chowk, Sadar, Cantt, Jabalpur, Madhya Pradesh, INDIA 482001

+917612620738



info@stalovsiuscollege.ac.in



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.



ST. ALOYSIUS' COLLEGE (AUTONOMOUS) JABALPUR,
(MADHYA PRADESH), INDIA

REACCREDITED 'A+' BY NAAC (CGPA 3.68/4.00)

COLLEGE WITH POTENTIAL FOR EXCELLENCE BY UGC

DST-FIST SUPPORTED & STAR COLLEGE SCHEME BY DBT



Session 2022-23

Certificate Course in "Innovative Zoological Advance"

Organized by Department of Zoology



Starting from

9th January to 23rd January 2023

Credits : 2 • Duration : 30 Hours



Eligibility :

Candidates with 10+2 pass
in any discipline or equivalent
are eligible for pursuing the
certificate course.

Beneficiary Name : Principal St. Aloysius College, Jabalpur

Credit Account No. : 5201214000008

IFSC Code : CNRB0005201

Bank Name : Canara Bank Branch : Gorakhpur Jabalpur

A/C Type : Current

Registration Link

<https://forms.gle/zMmeUajgyGhrcStb9>

For any query contact or mail us

Dr. Priyanka Sinha - 9685620011

Dr. Runa Paul- 9893415069

zoo.sac@gmail.com

Registration Fees

Rs 300/-



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

ST. ALOYSIUS COLLEGE (AUTONOMOUS), JABALPUR

Department of Zoology

Certificate Course

on

"Innovative Zoological Practices"

(Session 2022-23)

Duration: 30 hrs.

Credits: 2

Course Objective

Study of animals includes wide range of approaches such as genetics, molecular and cellular biology, taxonomy, anatomy, physiological processes as well as behavior and ecological aspects of the animal world including man and its surroundings thus keeping the above mentioned facts in view the proposed certificate course aims to impart theoretical as well as practical knowledge of various aspects of the applied zoological techniques in detail to the learners. This course is designed basically for the students who are interested in learning about different zoological techniques of human relevance. Some of the techniques taught during the course may help the students in their academic and professional endeavors.

Course Outcome

- Acquire knowledge of various aspects of the applied zoological techniques like preservation of fishes, microscopic and morphometric measurements in detail.
- Learn the theoretical basis of tools & technique in biology, its principle, working and its application.
- Develop an ability to analyze wildlife conservation management information.
- It will also explain the blood physiology and adulterants found in milk samples.
- Understand about the importance and scope of genetics.
- It will also explain the causes of infertility and the techniques like in vitro fertilization.



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

Paper -I Theory

Course Content

Unit I - Tools and techniques

Principle, working and application of Q-PCR, Thermocyclers, HPLC, TLC, FTIR spectrometers and Gel electrophoresis / SDS- PAGE, Immunochromatography and its applications.

Unit II- Genetics and Techniques

Role of genetic engineering in Zoology, Elementary idea of IVF, Study of genetic hybrids, Study of soniferous fishes using acoustic techniques. Museum keeping techniques wsr Dry and Wet Preservation of Zoological Specimens.

Unit. III- Wild Animal Conservation

Gender discrimination of tigers (*Panthera tigris*) using pugmarks, Species translocation, Hair profile study in mammals, Gene Bank and Germplasm Conservation,

Unit IV - Blood Physiology and Adulterants

Blood Indices and its significance in clinical pathology, Haemin crystals in human blood and its significance, Basic Insect haemolymph and its components. Adulterants of milk samples

Unit. V-Microscopic, morphometric and Quantitative measurements

Typical Truss Morphometric Network (TMN) in fish, Ocular micrometer and its significance, Camera Lucida and its application, Antibacterial properties of cow urine, Rheological properties of food items,

[Handwritten signatures and dates]
22/5/22
22/5/22
22/5/22
22/5/22



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

- Develop an understanding of significance of antibacterial properties of cow urine and rheological properties of food items in the current scenario.

1. **Eligibility Criteria:** Candidates with 10+2 pass in any discipline or equivalent are eligible for pursuing the certificate course.
2. **Duration of the Course:** The duration of the programme is 1 month (2 credits - 30 hrs).
3. **Fee Structure:** Rs. 300/-
4. **Internal Evaluation**

Scheme of Examination

Paper		Maximum Marks	Minimum Marks	Total Marks
I	Theory	50	25	100
II	Practical	50	25	

[Handwritten signature]
25/5/2020

[Handwritten signature]

[Handwritten signature]
25/5/2020

[Handwritten signature]



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

Water Quality Monitoring Brochure & Course Module



1, Ahilya Bai Marg, Pentinaka Chowk, Sadar, Cantt, Jabalpur, Madhya Pradesh, INDIA 482001

+917612620738



info@stalovsiuscollege.ac.in



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.



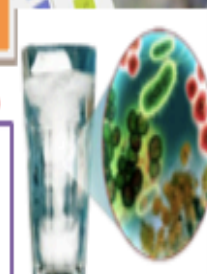
ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR (M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported, STAR college scheme by DBT



SOCIETY



LAB

Department of Botany and Microbiology

2022-23

Certificate course in

WATER QUALITY MONITORING

A STEP
TOWARDS
YOUR FUTURE
CAREER.....

ABOUT THE COURSE OBJECTIVES OF THE COURSE LEARNING OUTCOMES

Duration of course:
One month (theory and practical)

Commencement of Course:
1st Dec 2022 onwards

Course fees
Rs. 500

Eligibility criteria:
12th pass candidate with Science background.

- To alert us about current, ongoing, and emerging problems of pollution.
- To determine compliance with drinking water standards.
- To protect other beneficial uses of water.
- To inculcate skills for water quality assessment.

- Physical properties of water
- Chemical properties of water
- Biological properties of water
- Assessment methodologies
- Industrial application and job opportunities.

[REGISTER HERE](#)

ACCOUNT DETAILS

Name: St. Aloysius' College Account Acc.No.: 5201214000008
 Branch: Gorakhpur Jabalpur IFSC code: CNRB0005201
 MICR code: 482015006

Contact: Mrs. Roshni Choubey,
 Course coordinator
 (9713247488)



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.



St. Aloysius' College (Autonomous), Jabalpur, M.P.

Reaccredited A⁺ by NAAC with CGPA (3.68/4.0).

College with Potential for Excellence by UGC

DST –FIST supported and STAR College scheme by DBT

Department of Botany and Microbiology



CERTIFICATE COURSE IN WATER QUALITY MONITORING

Syllabus

Session 2021-22 onwards

Course Outcome:

Upon completion of the course learners will

- acquire knowledge about Water resources and pollution.
- be able to summarize the major properties of water.
- be able to describe and apply different tools, criteria and assessment methods for successful monitoring of water.
- be able to analyze water samples for physicochemical pollution / microbial contamination.
- develop skills to serve water industries.

Module 1

1 credits

1. Physical analysis of water

Introduction to general properties of water: odor, pH, color and turbidity, methods of assessment, water quality and surveillance programme, Water quality; Guidelines and standards.

2. Chemical analysis of water

Total dissolved solids (TDS), Ionic Analysis: Sodium, Potassium, Magnesium, calcium, iron, Lithium; Alkalinity: Chloride, nitrite, nitrate, phosphate, sulphate, chlorine
Inorganic non-metallic constituents

3. Microbiological analysis of water

Aerobic Microbial Plate Count (AMPC), Total Coliforms, Faecal Coliforms: *Streptococcus*, *Vibrio cholera*, *Escherichia coli*, *Staphylococcus aureus*, *Salmonella*, *Shigella*, *Clostridium*, yeasts and moulds.

*Module 2: Hands on water quality analysis

1 credits

Visit to water industries

Report submission

Note: Total credits: 20 (1 credit= 15 hrs)

SM
18/12/20

Je.
18/12/20

SM
18/12/20



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.



St. Aloysius' College (Autonomous), Jabalpur, M.P.

Reaccredited A+ by NAAC with CGPA (3.68/4.0),
College with Potential for Excellence (CPE) by UGC
DST –FIST supported and STAR College scheme by DBT
Department of Botany and Microbiology



CERTIFICATE COURSE IN WATER QUALITY MONITORING

Syllabus

Session 202. -2. onwards

MARKING SCHEME

MM: 100 Marks

1. Theory examination:

50 Marks

Multiple choice questions (5X1 = 05)

Short answer type questions (3X5 = 15)

Long answer type questions (10X3 = 30)

2. Practical examination

25 Marks

Major experiment (10)

Minor experiment (05)

Comment upon (05)

Viva voce (05)

3. Project

25 Marks

Handwritten signatures and dates: 18/12/20, 18/12



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.



St. Aloysius' College (Autonomous), Jabalpur, M.P.

Reaccredited A+ by NAAC with CGPA (3.68/4.0),

College with Potential for Excellence (CPE) by UGC

DST –FIST supported and STAR College scheme by DBT

Department of Botany and Microbiology



CERTIFICATE COURSE IN WATER QUALITY MONITORING Syllabus Session 2021-22.onwards

List of practical

1. To study the color / turbidity of given water sample.
2. To study the pH of given water sample.
3. Detection of chloride in given water sample.
4. To study the role of sedimentation in water purification.
5. To calculate TDS of given water sample.
6. Detection of ions in water through flame photometer.
7. Detection of dissolved oxygen in given water sample.
8. Detection of BOD and COD for given water sample.
9. Isolation of aquatic bacteria.
10. Isolation of aquatic fungi.
11. Isolation of *Vibrio* / *Salmonella* / *Shigella* / *Klebsiella* / *E. coli* on selective growth medium.
12. To perform coliform test.
13. Study of effect of UV radiations on microbial growth.
14. Treatment of waste water using Nature's strategy (Innovation).

Handwritten signature
18/12/20

Handwritten signature
18/12



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

Mushroom Cultivation Brochure & Course Module



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

Mushroom cultivation is one of the most lucrative and sustainable agri-business that one can start with a small investment and small space.

In India, mushroom cultivation is progressively becoming an alternative source of income.



Course duration: One month
Commencement of course:
27 September 2022
Mode: Hybrid Teaching
Eligibility: 12th pass



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.



CERTIFICATE COURSE
IN
MUSHROOM CULTIVATION

2022-23

Department of Microbiology

Course Objectives

- To learn cultivation practices
- To learn spawn development techniques
- To create awareness on nutritional and medicinal values of mushrooms
- To create consciousness about value added products of mushrooms
- To learn marketing

PAYMENT DETAILS

NAME: ST. ALOYSIUS COLLEGE ACCOUNT
ACCOUNT NUMBER: 5201214000008
BRANCH: GORAKHPUR, JABALPUR
IFSC CODE: CNRB0005201
MICR CODE: 482015006
ADDRESS: CANARA BANK
GORAKHPUR BRANCH
J R SAMA COMPLEX 75
NARBADA ROAD
KATANGA CROSSING JABALPUR
MADHYA PRADESH - 482001



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.



**FOR REGISTRATION LINK
CLICK HERE**



COURSE FEE: 500/-

CONTACT

DR. SONALI NIGAM

HEAD, DEPARTMENT OF MICROBIOLOGY

MOBILE NO.: 9111104979

DR. FEMINA SOBIN

COURSE COORDINATOR

MOBILE NO.: 9827484325

Learning Outcomes

- Mushroom structure and Significance of mushroom cultivation
- Diversities of edible mushrooms
- Spawn development and mushroom cultivation techniques
- Post harvest management
- Enlisting value added products and marketing strategies





ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.



Department of Botany & Microbiology

Certificate Course

2022-23

Mushroom Cultivation

(2 Credits)



Course Learning Outcomes: By the conclusion of this course, the students-

Outcome 1. Have developed a very good understanding of nutritional aspects and commercial use of mushrooms and its products for human consumption.

Outcome 2. Have developed a very good understanding of cultivation of mushrooms, management of diseases affecting mushrooms, mushroom harvesting and various avenues for using it into an entrepreneurship.

Module I: Theory

1 Credit

Unit – 1	Introduction: Morphology, Identification of edible & non-edible/poisonous mushrooms. Nutritional and Medicinal value of mushroom, Scope of mushroom cultivation.	2 Hours
Unit – 2	Edible Mushrooms: Button mushroom (<i>Agaricus bisporus</i>), Milky mushroom (<i>Calocybe indica</i>), Oyster mushroom (<i>Pleurotus sajor caju</i>) and paddy straw mushroom (<i>Kyariella volvaceae</i>).	3 Hours
Unit – 3	Principles & Requisites: Sterilization and disinfections of substrates, Pasteurization of different substrates, growth media, Spawn production and their maintenance.	3 Hours
Unit – 4	Techniques of Cultivation: Structure and construction of mushroom house, Multiplication of spawn, Composting, bed and polythene bag preparation,	4 Hours



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

	spawning - casing - cropping.	
Unit – 5	Cultivation management: Insect pests, fungal competitors and other important diseases, Pest management; Harvest and Post-harvest technology, Value added products and entrepreneurship.	3 Hours
Total theory hours		15 Hour

Module II: Practical

1 Credits

1.	Preparation of mother culture	2 Hour
2.	Multiplication of spawn	3 Hour
3.	Sterilization of substrates	2 Hour
4.	Pasteurization of substrates	2 Hour
5.	Composting	2 Hour
6.	Cultivation of oyster mushroom	3 Hours
7.	Cultivation of button mushroom	3 Hours
8.	Visit to mushroom cultivation unit	5 Hours
9.	Project	8 Hours
Total practical hours		30 Hour

Marking Scheme

MM 100

Modules	Max Marks	Minimum passing marks (50% marks)
Module I	50 marks	25
Module II	50 marks	25



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

(a) Practical	25 marks
(b) Project	25 marks
Total marks	100

Reference Books

1. Handbook on Mushrooms by Bahl N.
2. Benjamin Hirst Mushrooms: A Beginners Guide to Home Cultivation Paperback (20150)
3. V. N. Pathak. Mushroom Production and Processing Technology IST Edition Hardcover – 2011
4. Eiji Staff Hand Book of Mushroom Cultivation, Processing and Packaging Paperback – Import, 2007
5. R. C. Dubey and D. K. Maheshwari. Practical Microbiology, 2009. S. Chand and Com. Ltd. ISBN 81219-2153-8. 8 (4)



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

**Certificate course in Human Rights
Brochure
&
Course Module**



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

ST. ALOYSIUS COLLEGE (AUTONOMOUS)



Reaccredited 'A+' by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence by UGC

DST-FIST Supported & Star College Scheme by DBT

Jabalpur, Madhya Pradesh, India



Department of Political Science

Certificate Course in Human Rights

Course Fees: 500

Bank Details:

Beneficiary Name: Principal,

St. Aloysius College Autonomous Jabalpur

Credit Account No: 5201214000008

IFSC Code : CNRB0005201

Bank Name: Canara Bank

Branch: Gorakhpur, Jabalpur

Account Type: Current



Date of Commencement: 26 September 2022

Eligibility: Minimum 10+2

Duration: 30 Hrs (2 Credits)

Timing: 1.30-2.30 PM

Mode of Teaching: Hybrid

For Registration Click here: <https://forms.gle/84G5rvDc8YsXQRe28>

Email: poli.sac@gmail.com

For Queries Contact: 889436653, 9424086040, 7999709082



1, Ahilya Bai Marg, Pentinaka Chowk, Sadar, Cantt, Jabalpur, Madhya Pradesh, INDIA 482001

+917612620738

info@stalovsiuscollege.ac.in



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.



St. Aloysius' College Autonomous Jabalpur

Reaccredited 'A+' by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence by UGC

DST-FIST Supported & Star College Scheme by DBT

Jabalpur, Madhya Pradesh, India

Department of Political Science

Certificate course in Human Rights

Syllabus

(02 Credits)

Module I : Concept of Human Rights and Duties

1. Historical Development of Concept of Human Rights
2. Nature and Classification of Human Rights

Module II: United Nations and Human Rights

1. Universal Declaration of Human Rights 1948
2. Universal Declaration of Human Responsibilities 1997
3. UN bodies involved in protection of Human Rights – General Assembly, S.C, UNICEF, WHO, ILO, Economic and Social Council, U.N. Commission on Human Rights

Module III: Human Rights in India: Constitutional Framework

1. Fundamental Rights
2. Fundamental Duties

Module IV: Protection of Human Rights

1. Role of Judiciary in protection of human rights and duties
2. Role of NGO's , media and educational institutions in protection of human Rights.
3. Human Rights Commission and Protection of Human Rights in India



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

Chemistry in Everyday life

Brochure & Course Module



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.



CHIEF PATRON:

MOST REV. GERALD ALMEIDA

PATRON:

REV. DR. G. VAZHAN ARASU
(PRINCIPAL)

CHAIRPERSON: DR. ANJALI D'SOUZA
(VICE-PRINCIPAL)

CONVENER:

DR. SMARIKA LAWRANCE
(HEAD, DEPARTMENT OF CHEMISTRY)

COURSE COORDINATOR:

DR. SUTAPA ROY



CLICK TO REGISTER



ST. ALOYSIUS' COLLEGE (AUTONOMOUS), JABALPUR (M.P.)

REACCREDITED 'A+' GRADE BY NAAC (CGPA
3.68/4.00)

COLLEGE WITH POTENTIAL FOR EXCELLENCE BY
UGC (III CYCLE)

DST- FIST SUPPORTED
STAR COLLEGE SCHEME BY DBT

CERTIFICATE COURSE

ON

APPLICATION OF CHEMISTRY

IN DAILY LIFE

ORGANIZED BY

DEPARTMENT OF CHEMISTRY

REGISTRATION INFORMATION:

REGISTRATION FEES: RS 250/-

BENEFICIARY NAME: PRINCIPAL, ST.
ALOYSIUS COLLEGE, JABALPUR

CREDIT A/C NO. : 5201214000008

IFSC CODE: CNRB0005201

BANK NAME: CANARA BANK

BRANCH: GORAKHPUR JABALPUR

A/C TYPE: CURRENT

COURSE DETAILS

Starting from 20th FEBRUARY 2023

TIME: 12:30 TO 2:30 PM

FOR UG & PG STUDENTS

30 Hrs (2 Credits)

COURSE MODULES

MODULE I : ADULTERATION

MODULE II : SPECTROSCOPY

MODULE III : PHARMACEUTICAL ANALYSIS

MODULE IV : TOXICOLOGY

MODULE V : WATER ANALYSIS

MODULE VI : ENVIRONMENTAL ASPECT

RESOURCE PERSONS

DR. ANJALI D'SOUZA

(VICE-PRINCIPAL)

DR. SMARIKA LAWRANCE

(HEAD, DEPARTMENT OF CHEMISTRY)

DR. SUTAPA ROY

(ASST. PROF., DEPARTMENT OF CHEMISTRY)

DR. SHWETA LIKHITKAR

(ASST. PROF., DEPARTMENT OF CHEMISTRY)

DR. AMITA CHHATRI

(ASST. PROF., DEPARTMENT OF CHEMISTRY)

DR. MANJU GUPTA

(ASST. PROF., DEPARTMENT OF CHEMISTRY)



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

DEPARTMENT OF CHEMISTRY

Details of Value Added Course

Course Name:- "Application of Chemistry in Daily Life"

Eligibility Criterion:- Open for all

Duration:- 30 hours (2 credits)

Proposed Date:- February 2023

No. of Seats:- 30

Mark Scheme:- Total Marks 100 (Theory 50 & Practical 50)

There will be 5 (five) modules in this course which are as follows:-

Module I: *Thin Layer Chromatography and analysis of adulterants:* Introduction of Separation methods, basic principle and mechanism of separation in thin layer chromatography.

Reporting of results and application of TLC in the determination of adulterants present on red chilli powder, completion of reaction and in organic synthesis.

Module II: *Complexometric analysis:* EDTA- acidic properties, complexes with metal ions, indicators for EDTA titrations, theory of common indicators. Titration methods employing EDTA- direct, back and displacement titrations, indirect determinations.

Applications of EDTA titrations viz. In determination of calcium in calcium supplements, magnesium and aluminium in antacids etc.

Module III: *Water Analysis:* Water quality parameters, Acidity, Alkalinity, Hardness, COD and DO

Water Pollution, Fluoride and lead as water pollutant and its effects.

Quantitative estimations of Lead and Fluoride in water samples using Fluoride Ion Meter and Lead ion meter.

Module IV: *UV-VIS Spectrophotometer and colorimeter Analysis:* Introduction, verification of Beer-Lambert's law, instrumentation and applications.

Determination of Iron in some iron tablets by using spectrophotometer and colorimeter Estimation of Glucose in various brands of honey by using spectrophotometer and colorimeter

Module V: *Green Chemistry:* Definition, Twelve Principle of Green chemistry, Goal of Green Chemistry, Benefits of Green Chemistry, Green Chemistry in Day -to- Day life.

Synthesis of organic compounds by green method(Synthesis of Dihydropyrimidinone and Synthesis of Biodiesel), Application and Advantages.



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

Advertisement and Sales Promotion” Brochure & Course Module



1, Ahilya Bai Marg, Pentinaka Chowk, Sadar, Cantt, Jabalpur, Madhya Pradesh, INDIA 482001

+917612620738



info@stalovsiuscollege.ac.in



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.



ST. ALOYSIUS COLLEGE, (AUTONOMOUS)

Jabalpur, Madhya Pradesh, India

Reaccredited 'A+' by NAAC (CGPA- 3.68/4.00),

College with Potential for Excellence by UGC,

DST FIST Supported & Star College Scheme by DBT.



Jabalpur, Madhya Pradesh, **Certificate Course**
On
"Advertisement and Sales Promotion"

Date: 10th September - 10th October, 2022

Time: 1:30pm – 2:30pm

Note:

- ✓ Registration fees- 500/-
- ✓ Classes will be conducted in hybrid mode
- ✓ Certificate will be provided to all participants

Training Modules:

- ✓ Advertisement
- ✓ Advertisement Illustration
- ✓ Sales promotion
- ✓ Marketing
- ✓ Product Pricing
- ✓ Advertising Budget

LINK FOR REGISTRATION - <https://forms.gle/a551uAek9yzGFZH06>

Beneficiary Name : Principal, St. Aloysius, College

Credit Account Number : 5201214000008

IFSC Code : CNRB0005201

Bank Name : Canara Bank

Branch : Gorakhpur, Jabalpur

Account Type: : Current

For Enquiries Contact:

Dr. Reeta Chouhan 9770727827

Dr. Anthonima 7898865525

Dr. Renu Markande 7470965809

Ms Deeksha Jain 9582453237



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

Advertisement and Sales Promotion

UNIT- I

Marketing: functions of marketing and importance of communication management, Tools of Marketing: Communication, Advertisement, Sales Promotion and Salesmanship.

UNIT- II

Advertisement and Publicity: Meaning, importance and Objectives, Effects of advertisement, Medium of publicity: Print, Audio and visual, Effects of Advertisement on sales Promotion.

UNIT- III

Classification of Advertisement: on basis of Area, Product and Service, Advertising Budget: Meaning, Factors affecting Advertising Budget.

UNIT- IV

Advertisement Illustration: Sub and Main Illustration, Slogan, Logo, Trademark, Layout Construction, Effects of Colors in Advertisement.



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

PROFICIENCY IN ENGLISH- LSRW

Brochure

&

Course Module



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.



DEPARTMENT OF ENGLISH
IN COLLABORATION WITH

INDIAN SOCIETY FOR THE PROMOTION OF ENGLISH LANGUAGE & LITERATURE (iSPELL)
ORGANISES CERTIFICATE COURSE (VALUE ADDED COURSE)

TOWARDS BETTER COMMUNICATION: HONING LSRW SKILLS IN ENGLISH

Jan. 28 – Feb. 9, 2023

2 - 4 PM

Registration Fees: Rs 600/-

Registration Link - <https://forms.gle/duNKfNBfFzE7bYw18>

Patron

Rev. Dr. G Vazan Arasu

Principal

**St. Aloysius' College (Auto.)
Jabalpur (M.P.)**

Learn
English from
experienced
faculties



Learning Benefits

- Improve Competency Across the Four skills: Listening, Speaking, Reading & Writing
- Develop ability to use English Pronunciation and Vocabulary with accuracy and confidence.
- Effective Communication in various situations in formal & informal



- The main objective is to make one feel comfortable in understanding, thinking and finally speaking fluently in English.

Prof. G.A .Ghanshyam

**Directorate of Higher Education
Raipur, CG**

Beneficiary Name- Principal,

St. Aloysius' College, Jabalpur

Account No: 5201214000008

IFSC Code: CNRB0005201

Bank Name: Canara Bank,

Branch: Gorakhpur, Jabalpur

Founder & General Secretary, iSPELL

Dr. Neelanjana Pathak

Head, Dept. of English

Dr. Soma Guha Das

Course Coordinator

0430755936



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

Department of English Certificate Course

2022-23

Department of English is going to organize a certificate course on "Towards Better Communication: Honing LSRW Skills in English Language".

Communication is the science and art of making sense with words. In addition to its vocational value, communication skill is probably the most important pre-requisite to learning in any field of academic study, and to growth and development in the community. One must learn to clarify one's thoughts, to express them efficiently and effectively and to examine the expression of others in order to comprehend its meaning and significance. Its purpose, methods, and presentation have been given in order to obtain proficiency in listening, reading, speaking, and writing.

	Topic	Time
1	Objective of Communication	2hours
2	Principles of Communication	2hours
3	Listening /Hearing	2hours
4	Types of Listening	2hours
5	Communication Techniques	2hours
6	Reading	2hours
7	Reading Comprehension and Thinking	2hours
8	Reading Techniques	2hours
9	Writing :Academic and Creative	2hours
10	Written Communication	2hours
11	Speaking :	2hours
12	Public Speaking	2hours
13	Face to Face Communication/Telephonic Communication	2hours
14	Games: Games as a reflective strategy	2hours
15	Virtual Communication	2 hours

Course Outcomes:

enhancing their resources to deal with communicative needs of everyday life at home, at work and in social interaction.

3. Ability to transfer information from non-verbal to verbal and vice versa.

4. The course will cover development of LSRW.

1. The course covers most of the basic skills required for undertaking day-to-day personal and professional transactions using English as the medium of communication

2. The prescribed syllabus will help the students increase their proficiency in English by



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

5. Participation in social and professional communication.
6. Sensitivity of learners to cross-cultural differences.
7. Total shift in pedagogy from lectures oriented classes to interactive learning.
8. Students will be better equipped to understand the function of grammatical item used in spoken/written language.
9. Identifying general theories and central concepts associated with communication.
10. The material, methodology and language tasks create contexts for interaction and language use, so that learners acquire and sharpen their language skills as they process the texts on their own.

Number of Students: 20 (Twenty minimum)

Duration of Course: 30 Hours (Thirty hours)

Credit: 2

Registration Fees: 500 /-

Teacher In charge : Dr. Soma Guha Das



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

कर्यालय एवं जनसंचार कार्यविधि

**Brochure
&
Course Module**



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.



संत अलॉयसियस स्वशासी महाविद्यालय

Reaccredited 'A+' by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence by UGC

DST-FIST Supported & Star College Scheme by DBT

Jabalpur, Madhya Pradesh, India



हिन्दी विभाग

प्रमाण-पत्र पाठ्यक्रम 2022-2023

कार्यालय एवं जनसंचार कार्यविधि

Bank Details:

Beneficiary Name- Principal,
St. Aloysius' College, Jabalpur
Credit Account No.
5201214000008
IFSC Code: CNRB0005201
Bank Name: Canara Bank
Branch: Gorakhpur, Jabalpur
Account Type: Current

प्रारंभ - 15 सितंबर 2022

समय - 12.30 से 1.30 बजे

माध्यम - मूलतः शीट

पंजीयन शुल्क-300 रु.,

महाविद्यालयी विद्यार्थी

500 रु., अन्य विद्यार्थी

पंजीयन लिंक -

[https://docs.google.com/forms/d/1yksfpZbSqG](https://docs.google.com/forms/d/1yksfpZbSqGH7pAON6EXfpFcSpUd3wg2IkNsO32smgZ4/e/dit?usp=sharing)

[H7pAON6EXfpFcSpUd3wg2IkNsO32smgZ4/e](https://docs.google.com/forms/d/1yksfpZbSqGH7pAON6EXfpFcSpUd3wg2IkNsO32smgZ4/e/dit?usp=sharing)

[dit?usp=sharing](https://docs.google.com/forms/d/1yksfpZbSqGH7pAON6EXfpFcSpUd3wg2IkNsO32smgZ4/e/dit?usp=sharing)

मुख्याकर्षण

प्रारूपण

टिप्पण

समाचार लेखन

संपादन

छायांकन

संपर्क : डॉ. रामेन्द्र प्रसाद ओझा, डॉ. कैरोलिन रौनी, डॉ. रीना थॉमस, डॉ. अमिताषा शुक्ला

मोबाईल नं. : 9827751341

8319964503

9926621551

9179196111



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

प्रमाण पत्र पाठ्यक्रम

2022-2023

कार्यालय एवं जनसंचार कार्यविधि

1. कार्यालय कार्यविधि

- प्रारूपण
- टिप्पण
- बैठकें
- पारिभाषिक शब्दावली

2. मुद्रित समाचार माध्यम

- समाचार लेखन
- संपादन
- प्रूफ रीडिंग
- ले आउट

3. इलेक्ट्रॉनिक समाचार माध्यम

- समाचार लेखन
- समाचार वाचन
- संचालन
- संपादन

4. विज्ञापन

- विज्ञापन की अवधारणा एवं विविध माध्यम
- कॉपी राइटिंग (प्रतिलिपि लेखन)
- स्वर एवं अभिनय
- संपादन एवं निर्देशन

5. छायांकन

- छायांकन – मुद्रित समाचार माध्यम
- छायांकन (वीडियो ग्राफी) – इलेक्ट्रॉनिक समाचार माध्यम
- छायांकन – विज्ञापन

प्रायोगिक

- समाचार लेखन, शीर्षक संरचना एवं संपादन कला
- समाचार प्रस्तुति, वार्ता संचालन
- विज्ञापन संरचना
- ले आउट संरचना एवं छायांकन



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

पाठ्यक्रम योजना

1 पाठ्यक्रम 30 घंटे (2 क्रेडिट) का होगा।

2 15 सैध्दांतिक कक्षाएँ (1 घंटा प्रति कक्षा) एवं 15 प्रायोगिक कक्षा (2 घंटे प्रति कक्षा) आयोजित की जाएगी।



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

**Certified Management Accountant CMA US
Brochure
&
Course Module**



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

Be future-ready!



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

B.Com with US CMA

The CMA® (Certified Management Accountant) offered by IMA, US, is a global benchmark for financial professionals. Why? Because CMA's can explain the "why" behind numbers, not just the "what". CMA can give you greater credibility, higher earning potential, and ultimately a seat at the leadership table.



Semester 1-4

- CMA curriculum integrated in Sem 1-4
- CMA is offered by the IMA (Institute of Management Accountants), US
- Learn using official Miles CMA Learning System powered by Hock International



Semester 5-6

- Take the 2-part CMA exam:
 - Part 1: Financial Planning, Performance and Analytics
 - Part 2: Strategic Financial Management
- Get placed with MNCs including Fortune 500 companies



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

Did you know that you can clear the 2-part CMA exam even before graduation ?

CMA's of all ages earn more than non-CMA accounting professionals. CMA's between the ages of 30-39 can earn 63% more in total compensation than their non-CMA peers. Over a lifetime, this can add up to more than \$500,000.

CMA's have greater earning power



Careers @ MNCs & Fortune 500 companies

and many more...

For more info & enrollment, contact:



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

B.Com with US CMA

Part -1. (Course Structure)

- Financial Planning , Performance and Analytics
- Overlap with Curriculum of Management Accounting (Plus Financial Accounting)
- 4-hour Exam (75% multiple choices & 25% essays)

Content Covers

- External Financial Reporting
- Planning and Budgeting
- Performance Management
- Cost Management
- Internal Controls
- Technology and Analytics



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

**CPBFI Certified Program In Banking Finance and Insurance
Brochure
&
Course Module**



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.



Join a National Initiative to Unlock the Potential of Your Graduates!



BEYOND

**CERTIFICATE PROGRAMME
IN BANKING, FINANCE
AND INSURANCE (CPBFI)**

Where Potential Meets Opportunity



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

What our partner colleges and their alumni are saying...



"The programme and the efforts made by Bajaj Finserv on placements led to over 400 of our students finding jobs in good, national financial institutions."

Mr. Sanjay Bhargava,
Chairman & Trustee, Shiksha Mandol, Wardha



"The various constituents of the programme like the industry relevant curriculum, HR workshop and Swaroop certainly promote holistic development of young graduates."

Dr. G. Vazhan Arasu,
Principal, St. Aloysius College of Commerce, Jabalpur



"The CPBFI classes are most sought-after by our students. It has helped them enhance their placement opportunities."

Dr. G. Sahaya Baskaran,
Professor of Physics and Coordinator,
Employability Skills Centre, Andhra Loyola College, Vijayanwada



"Before I joined the course I was rejected by three companies and after CPBFI, I gave two interviews and was shortlisted for both. I have had a great leap of confidence after CPBFI. Today I am a better version of myself."

Alhna Shaik
Alumni of Rosary College of Commerce & Arts,
Navelim, Goa



"CPBFI infuses professionalism in students, caters to our learning and bridges the college-industry gap. Trainers provide their best and ensure the concepts are understood by the students. This is one of the best programmes I have done."

Vaibhav Bansode
Alumni of SBES College of Arts & Commerce,
Aurangabad



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.



"We are looking for partners, such as your institute, to reach and train young graduates and prepare them for corporate roles, especially in financial services. Our certificate programme, designed by the industry, for the industry, will develop them into confident professionals. Let us join hands to unlock the potential of your students and build a talent pool for a resurgent India!"

Sanjiv Bajaj,
Chairman and Managing Director,
Bajaj Finserv Limited

The CPBFI Network

Reach	2018-19	2019-20	Since inception
States	4	7	8
Towns	15	39	53
Partner colleges	27	99	152
Active centres	22	90	124
Batches	30	100	#240
Student enrolments	1,022	3,809	#10,000

Extrapolated up to March 2021

The reasons to partner Bajaj Finserv

Produce graduates that are ready for the industry

Attract top recruiters for placements

Improve NAAC/NIRF Ratings and Ranking among the Best Colleges

Attract top students from the city



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

About CPBFI

CPBFI is a customised training programme conducted by Bajaj Finserv for graduates, especially the first-generation graduates, across India. CPBFI aims to make these graduates employable for the Banking, Financial Services and Insurance (BFSI) sector. As per industry estimates, less than 50% of the graduates passing out of the colleges are ready for corporate roles. This poses challenges for graduates aspiring for a successful career and for industry looking for skilled employees. CPBFI aims to solve this dual challenge.

CPBFI is a 100-hour training programme designed by Bajaj Finserv in collaboration with industry experts, educational institutes and a leading mental health institute. CPBFI equips participants with the right attitude, skills and industry knowledge, thereby going beyond a typical skill development programme. Successful participants can apply for different roles in banks, finance companies and insurance companies. CPBFI prepares participants for the challenging customer-facing roles in sales, service and operations which offer maximum career opportunities and excellent growth prospects.

CPBFI is conducted by a pool of trainers with extensive industry and training experience. The courses are delivered using an experiential-learning approach based on adult-learning principles. Students are able to participate in the discussions, role plays and other group activities where they can shape their own skills and knowledge. CPBFI is short, practical and affordable which makes it accessible to every student. This unique combination of content and pedagogy makes CPBFI one of the best extra-curricular programmes that a college can offer its students.



The data, from the assessments by external recruiters and outcome of the 2 CPBFI job fairs, suggests that the CPBFI students are twice as likely to get a role in a corporate, compared to their peers. Bajaj Finserv is continuously working to take this number even higher. The Bajaj Finserv team is currently working towards setting up a placement division that can support the CPBFI participants' access to top recruiters through job fairs, walk-in drives and campus placements.

By partnering with Bajaj Finserv, colleges can not only enhance the career opportunities of the students, but also attract top companies to recruit from the college. An industry partnership can benefit the college by improving its NIRF and NAAC rating and its rank in the Best College Rankings by the different agencies. CPBFI is exclusively available to students and alumni of Bajaj Finserv's partner colleges.

How to become a Bajaj Finserv CPBFI partner

- 1 Meeting between college officials and Bajaj Finserv representative
- 2 College decides to partner with Bajaj Finserv
- 3 Inform Bajaj Finserv, submit required college data electronically
- 4 Bajaj Finserv HO team meets college officials – physically or virtually
- 5 Bajaj Finserv decides to partner with the college
- 6 Bajaj Finserv and College agree on partnership terms and draft an MoU
- 7 College mobilises the first CPBFI Batch
- 8 Bajaj Finserv and College enter into partnership by signing the MoU
- 9 All CPBFI participants appear for online Pre-CPBFI Quiz and/or Interview
- 10 Launch of CPBFI at the college at a formal launch ceremony



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

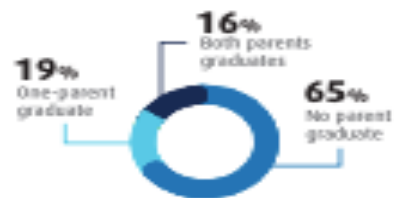
DST-FIST Supported & Star College Scheme by DBT.

CPBFI student profile

By gender



By parent education



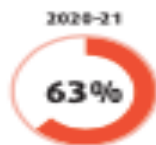
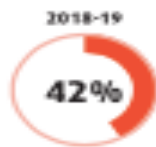
By social categories



By stream



Employability of students



Employability is measured based on results of interviews by corporate recruiters

Student satisfaction scores



My confidence has improved



My communication skill has improved



My industry knowledge has improved



CPBFI was the right decision for my career



Students indicate % of students agreeing with the statement



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

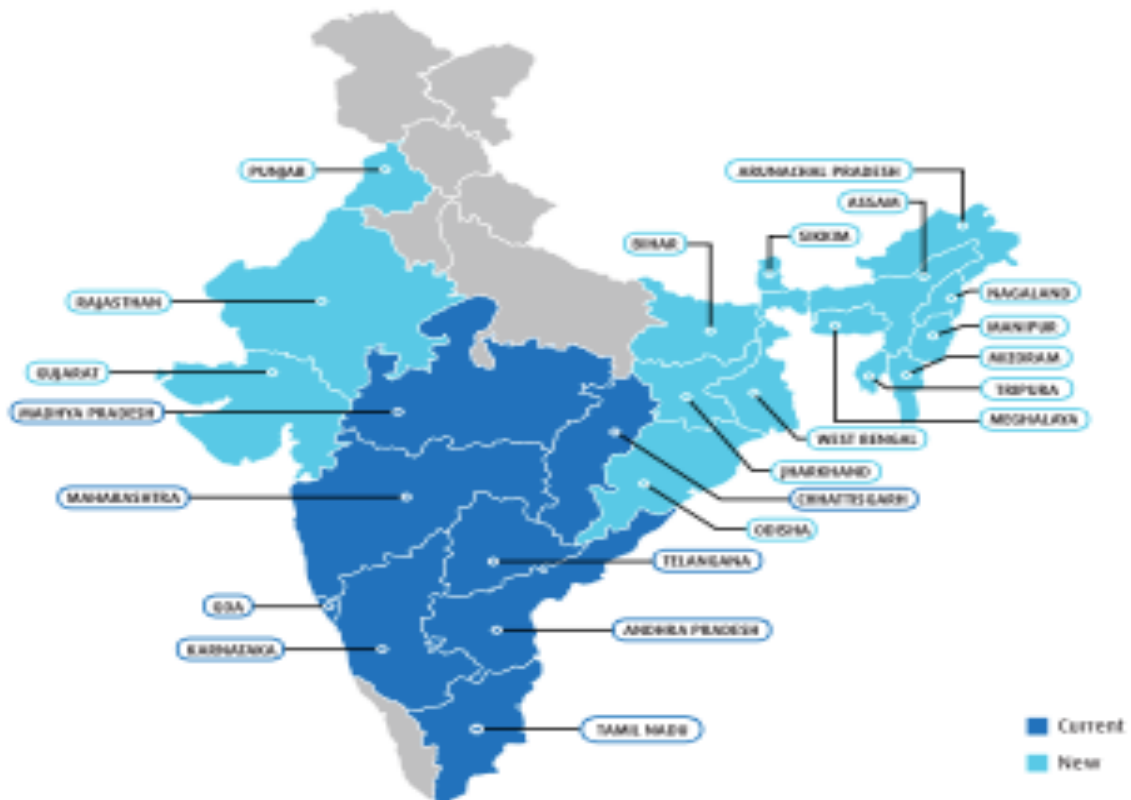
Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

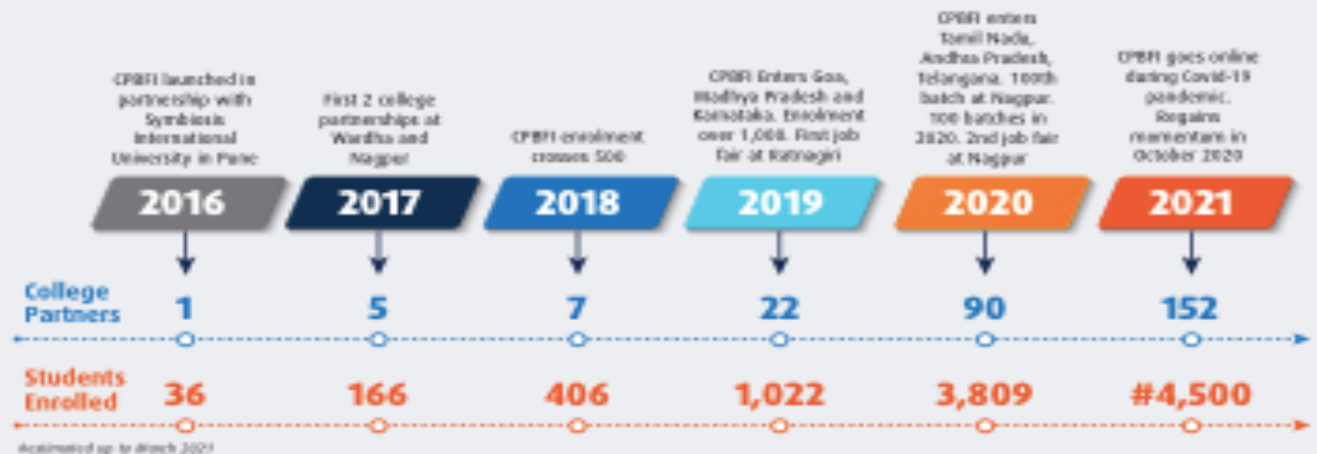
DST-FIST Supported & Star College Scheme by DBT.

CERTIFICATE PROGRAMME IN BANKING, FINANCE AND INSURANCE

Where Potential Meets Opportunity



Our journey so far...





ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

CPBFI Courses and Structure

ATTITUDE

Course 1: Managing Self - Swaloop

- Swaloop orientation
- My Self
- Self-belief - staying assertive
- Mind-body connections and Self-talk
- What are emotions
- Regulating emotions
- What is belief
- ABC Principle of REBT
- Rational and irrational beliefs
- Decision making
- Daily challenges

SKILLS

Course 2: Communication and Workplace Skills

- What is communication
- Goals and barriers in communication
- Modes of communication
- Listening skills and empathy
- Non-verbal expression skills
- Summarisation skills
- Effective communication
- Use of language in communication
- Spoken communication
- Telephonic communication
- Written communication
- Giving and receiving feedback
- Saying and taking NO
- Persuasion and influencing skills
- Working in teams
- Group discussion skills
- Goals and targets at workplace
- Representing self
- Job interview techniques
- Job interview demonstration

KNOWLEDGE

Course 3: Overview of Retail Banking

- Introduction to Banking
- Introduction to Branch Banking
- Customers and their Needs
- Overview of Banking Products
- Liability Products
- Asset Products
- Third Party and Fee-based Products
- Business Development
- Transaction Processing
- Customer Service
- Compliance and Ethics
- Future of Banking
- Inclusive Banking
- Introduction to NBFCs
- Overview of Corporate Banking
- Banking and Me

KNOWLEDGE

Course 4: Overview of Insurance

- Need for Insurance
- Evolution of Insurance
- Overview of an Insurance Company
- Overview of Retail Insurance Products
- Overview of the Companion Products
- Overview of Insurance Distribution Channels
- Selling Insurance
- Insurance Operations
- Customer Service
- Ethics and Compliance in Insurance
- Future of Insurance
- Inclusive Insurance
- Profitability Drivers for Insurance

Mock interviews by corporate recruiters

Classroom Only



96 hrs over 30 days

Online Only



96 hrs over 46 days



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

Our partners



Centre for Investment Education
and Learning (CIEL)



WalchandPlus a Division of
Walchand PeopleFirst Limited (WPFL)



Centum Learning Limited.



Bajaj Finserv Limited, 6th Floor, Bajaj Finserv Corporate Office,
DIT Pune-Ahmednagar Road, Viman Nagar, Pune - 411 014, Maharashtra, India
Tel: +91 20 30405700 - Fax: +91 20 30405792

Follow us on LinkedIn
<https://www.linkedin.com/showcase/finservgbfi>



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

CPBFI Courses and Structure

ATTITUDE

Course 1: Managing Self - SwaRoop

- SwaRoop orientation
- My Self
- Self-belief – staying assertive
- Mind-body connections and Self-talk
- What are emotions
- Regulating emotions
- What is belief
- ABC Principle of REBT
- Rational and irrational beliefs
- Decision making
- Daily challenges

SKILLS

Course 2: Communication and Workplace Skills

- What is communication
- Goals and barriers in communication
- Modes of communication
- Listening skills and empathy
- Non-verbal expression skills
- Summarisation skills
- Effective communication
- Use of language in communication
- Spoken communication
- Telephonic communication
- Written communication
- Giving and receiving feedback
- Saying and taking NO
- Persuasion and influencing skills
- Working in teams
- Group discussion skills
- Goals and targets at workplace
- Representing self
- Job interview techniques
- Job interview demonstration

KNOWLEDGE

Course 3: Overview of Retail Banking

- Introduction to Banking
- Introduction to Branch Banking
- Customers and Their Needs
- Overview of Banking Products
- Liability Products
- Asset Products
- Third Party and Fee-based Products
- Business Development
- Transaction Processing
- Customer Service
- Compliance and Ethics
- Future of Banking
- Inclusive Banking
- Introduction to NBFCs
- Overview of Corporate Banking
- Banking and Me

KNOWLEDGE

Course 4: Overview of Insurance

- Need for Insurance
- Evolution of Insurance
- Overview of an Insurance Company
- Overview of Retail Insurance Products
- Overview of the Companion Products
- Overview of Insurance Distribution Channels
- Selling Insurance
- Insurance Operations
- Customer Service
- Ethics and Compliance in Insurance
- Future of Insurance
- Inclusive Insurance
- Profitability Drivers for Insurance

Mock interviews by corporate recruiters

Classroom Only



96 hrs over 30 days

Online Only



96 hrs over 46 days



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

**Indian History Chronology from Ancient India to Medieval India
Brochure
&
Course Module**



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR (M.P.)

Reaccredited "A+" Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence by UGC(III
Cycle)

DST-FIST Supported
Star college Scheme by DBT



FOR:

- Humanities students, IAS aspirants
- Anyone interested in learning.

ONLINE CERTIFICATE COURSE ON INDIAN HISTORY CHRONOLOGY FROM ANCIENT INDIA TO MEDIEVAL INDIA

Organized by : DEPARTMENT OF HISTORY
SESSION : 2022-23

COURSE FEES: Rs 500/-

Beneficiary Name: Principal, St. Aloysius
College, Jabalpur

Credit A/C No. : 5201214000008

IFSC CODE: CNRB0005201

BANK NAME: Canara Bank Branch: Gorakhpur

Jabalpur A/C type Current

PATRON:

Rev. Dr. G. Vazhan Arasu

COORDINATOR:

Dr. Manju Maria Solomon

Head, Department Of History

For Queries Contact: his.sac@gmail.com

Dr. Manju Maria Solomon 9826751607



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

SYLLABUS-2022-23

ONLINE CERTIFICATE COURSE

Indian History Chronology (From Ancient India to Medieval India)

DEPARTMENT OF HISTORY

Module I: Ancient Indian History -Part- 1

1. Pre-Historic Age
2. Indus Valley Civilization
3. Early vedic Age
4. later vedic Age
- 3 Bhuddhism.
- 4 Janism.

Module II: Ancient Indian History -Part – II

1. Mauryan Empire
2. Chandra Gupta Maurya
3. Bindussar.
4. Ashoka

Module III: Post Mauryan Period

- 1 Gupta Empire –Chandra Gupta – I
- 2 Samudra Gupta and Chandra Gupta II

Module IV: Sultate Period

1. Qutub –din-Aibak
2. Iltutmish and Raziya Sultan
3. Balban
4. Khilji Dynasty

Module V : Tuglaq Dynasty

1. Gyasudin Tuglaq, Mohmmad –bin-Tuglaq and Firoz shah Tuglaq.

Module VI: Mughal Empire

- 1-Babur , -Humayun -Akbar
- 2-Jahangir , Sahanjahan.
- 3-Chatrapati Shivaji and Aurangzeb.





ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

Microtomy Practical Brochure & Course Module



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.



ST. ALOYSIUS' COLLEGE (AUTONOMOUS) JABALPUR,
(MADHYA PRADESH), INDIA

REACCREDITED 'A+' BY NAAC (CGPA 3.68/4.00)
COLLEGE WITH POTENTIAL FOR EXCELLENCE BY UGC
DST-FIST SUPPORTED & STAR COLLEGE SCHEME BY DBT



Session 2022-23

Certificate Course on "Microtomy Practical"

Organized by Department of Zoology

Starting from

16th August to 16th September 2022

Credits : 2 ● Duration : 30 Hours



Eligibility :

UG & PG Students

All Bioscience Students

Beneficiary Name : Principal St. Aloysius College, Jabalpur

Credit Account No. : 5201214000008

IFSC Code : CNRB0005201

Bank Name : Canara Bank Branch : Gorakhpur Jabalpur

A/C Type : Current

Registration Link

<https://forms.gle/Lr9eXvQxmJEUoNmL9>

For any query contact or mail us

Dr. Priyanka Sinha - 9685620011

Dr. Runa Paul- 9893415069

zoo.sac@gmail.com

For more details please visit college website : staloyuscollege.ac.in



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

ST. ALOYSIUS COLLEGE (AUTONOMOUS), JABALPUR

Department of Zoology

Certificate Course

on

"Microtomy"

(Session 2022-2023)

Duration: 30 hrs.

Credits: 2

Course Objectives:

- The course provides students with basic knowledge and principle of microtome and their application
- To get detailed information about tissue sectioning using a microtome
- To provide a basic idea about the microscopic analysis of internal structure
- To understand the techniques involved in the process of microtomy.
- To develop fundamental knowledge of histological details of the organs and tissues

Learning Outcomes:

The students are expected to acquire the knowledge of the following:

- Types of microtome and their application
- The technique of tissue sectioning
- Preparation of permanent slides of tissues for microscopic examination of internal structure.
- Histological details of the organs and tissues

Handwritten signatures and dates:
22/7/22
Ruma
22/7/22
Amrinda



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

Eligibility Criteria:-

1. UG & PG (Biosciences Students), Any students from any college can register in the course
2. Duration & Credits of the Course -: 30 hrs & 2 Credits
3. Fee Structure: Rs. 300/-
4. Internal Evaluation

Scheme of Examination

Paper		Maximum Marks	Minimum Marks	Total Marks
I	Theory	50	25	100
II	Practical	50	25	

[Signature]

[Signature]

[Signature]
22/12/22

[Signature]
Runa

[Signature]
20/12/22



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

Paper -I Theory

Course Content

Unit I – Introduction of the course, history & scope

1. Define Microtome
2. History of Microtomy
3. Microtome – Scope & Applications
Traditional Histology Technique
Cryosectioning Technique
Electron Microscopy Technique

Unit II – Histology

1. Cell & Tissue
2. Different types of tissues
3. Structure & function of tissues
Epithelial Tissue
Connective Tissue
Nervous Tissue
Muscle Tissue

Unit III – Types of microtomes - Principle, working & application

- i. Hand Microtome
- ii. Rotary microtome
- iii. Base sledge microtome
- iv. Cryomicrotome
- v. Ultra microtome
- vi. Microtome knife and its types.
- vii. Advantages
Disadvantages

Unit IV – Process of Microtomy (Part I)

- Preparation of the material & fixation
- Washing
- Dehydration
- Clearing of the tissue
- Preparation of the tissue for embedding
- Paraffin Infiltration and embedding



ST. ALOYSIUS' COLLEGE

(AUTONOMOUS), JABALPUR(M.P.)

Reaccredited 'A+' Grade by NAAC (CGPA 3.68/4.00)

College with Potential for Excellence (CPE) by UGC

DST-FIST Supported & Star College Scheme by DBT.

Unit V - Process of Microtomy (Part II)

- Block Making and orientation
- Trimming of block
- Cutting Sections
- Mounting on microscope slides
- Clearing and Staining
- Preparation of permanent mount

Paper II – Practical

Course content

1. Different steps of tissue processing and staining for paraffin sections

- Preparation of the material & fixation
- Washing
- Dehydration
- Clearing of the tissue
- Preparation of the tissue for embedding
- Paraffin Infiltration and embedding
- Block Making and orientation
- Trimming of block
- Cutting Sections
- Mounting on microscope slides
- Clearing and Staining
- Drying of the slides
- Preparation of permanent mounts

Handwritten signatures and dates:
24/7/22
Runa
21/07/22