



PLACEMENT MODULE – 2023

(A PART OF JOB – A – THON - 2023)



(SECOND ROUND PREPARATION)

Prepared by:

Bhabani Sankar Sahoo

(Placement Officer, CTC, Angul)

INTRODUCTIONS:

1. We have already covered briefly about C, C++, PYTHON & JAVA in last semesters.
2. All type of interview related questions & answers will be discussed.
3. We have some previous year question papers for all.
4. The best things we are going to introduced this year i.e. **“ADDITIONAL COURSES”**
5. **Students can join different types of “INTERSHIPS PROGRAM” for their technical up gradations.**

OBJECTIVES:

1. The objective of additional courses in college is to provide students with an opportunity to gain knowledge and skills beyond their core curriculum, which can help them, develop a broader understanding of their field of study, explore new areas of interest, and enhance their employability.
2. Additional courses may include elective courses, minor programs, and certificate programs. Elective courses allow students to select courses that interest them or align with their career goals.
3. Minor programs provide students with a structured curriculum in a secondary area of study, which can complement their primary degree and enhance their knowledge and skills. Certificate programs offer specialized training in a particular skill or area of knowledge, which can help students, develop expertise in a specific field.
4. Taking additional courses in college can also help students develop critical thinking, problem-solving, and communication skills, which are highly valued by employers.
5. It can also provide opportunities for students to network with other students and faculty members, which can lead to internships, research opportunities, and professional connections.
6. Overall, the objective of additional courses in college is to provide students with a well-rounded education and prepare them for success in their future careers.

PLAN:

1. The additional courses purely conduct by “CREATIVE TECHNO COLLEGE”.
2. It is going to a crystal “In-house Training”.
3. Our own faculty experts will take care of our own students.
4. Both classes & practical session over there in this program.
5. “TECHNOCRAT” group is ready to involve in this program.
6. It is the best way to boost our technical knowledge with some critical projects.
7. We have to cover the current demanding course those are boom in IT industry.
8. At the end, students get certificate of the course.

COURSE FOR 2023:

1. POWER BI:

- The objective of POWER BI is to provide comprehensive business intelligence and data analytics platform that allows businesses to easily access, analyse, and visualize their data.
- POWER BI is a suite of tools that includes data connectors, data modelling tools, data visualization tools, and collaboration and sharing features, all designed to help businesses make better decisions based on their data.
- The primary objective of POWER BI is to help businesses turn data into actionable insights, enabling them to make better decisions, improve performance, and drive growth. By providing a single, integrated platform for data analysis and visualization, POWER BI enables businesses to easily combine data from multiple sources, model it in a way that makes sense for their business, and quickly create visualizations and reports that can be easily shared across their organization.
- POWER BI also aims to provide businesses with a user-friendly and intuitive interface that does not require extensive technical expertise. This allows business users to take ownership of their data and use it to drive their business forward, without having to rely on IT or data scientists.
- Overall, the objective of POWER BI is to provide businesses with a powerful, yet accessible, tool for data analysis and visualization that can help them make better decisions, drive growth, and stay ahead of the competition.

SYLLABUS:

UNIT – 1

Introduction to Power BI: Overview of Power BI, its features, and how it works. Understanding the different components of Power BI, including Power BI Desktop, Power BI Service, and Power BI Mobile.

UNIT – 2

Data Acquisition and Transformation: Understanding how to connect to different data sources, including Excel, SQL Server, and other databases. Learning how to transform data using the Power Query Editor and apply data cleansing and data shaping techniques.

UNIT – 3

Data Modelling: Creating relationships between data tables and understanding the importance of data modelling in Power BI. Learning how to create calculated columns, measures, and hierarchies.

UNIT – 4

Data Visualization: Understanding the different types of data visualizations available in Power BI, including charts, graphs, maps, and tables. Learning how to create custom visualizations and add interactivity to visualizations.

Faculty: BHABANI SANKAR SAHOO

Practical co-ordinator: a. Barsarani Barik (BCA – 2020) – TECHNOCRAT

b. Rakesh Kumar Senapati (BSC- CS – 2020) – TECHNOCRAT

NPTEL PROGRAM:

- NPTEL (National Programme on Technology Enhanced Learning) is a joint initiative of the Indian Institutes of Technology (IITs) and the Indian Institute of Science (IISc), Bangalore. NPTEL provides high-quality, free online courses in engineering, science, and humanities to learners across the globe.
- The courses offered by NPTEL are designed and developed by experts from academia and industry. The courses are structured to cover a wide range of topics, from basic concepts to advanced techniques, and are available in both video and text formats. Learners can access the courses anytime, anywhere, and at their own pace.
- NPTEL courses cover a broad range of subjects, including engineering, computer science, management, humanities, and social sciences. Some of the popular courses offered by NPTEL include:
 - Programming in C and C++: This course provides an introduction to programming in C and C++, covering basic concepts such as data types, control structures, functions, arrays, pointers, and classes.
 - Introduction to Data Science: This course provides an overview of data science, covering topics such as data preprocessing, data visualization, statistical inference, and machine learning.
 - Introduction to Artificial Intelligence: This course covers the basics of artificial intelligence, including machine learning, natural language processing, and computer vision.
 - Digital Signal Processing: This course covers the fundamentals of digital signal processing, including Fourier analysis, filter design, and signal processing applications.
 - Principles of Management: This course provides an overview of management principles, including planning, organizing, leading, and controlling.

- **Modern and Contemporary Indian Culture:** This course explores the rich cultural heritage of India, covering topics such as literature, art, music, and dance.
- **NPTEL courses are open to all learners, regardless of their educational background or experience.** Learners can enroll in courses for free and receive a certificate upon completion of the course. Overall, NPTEL courses provide learners with a unique opportunity to learn from some of the best educators and industry experts in India, and enhance their knowledge and skills in a wide range of fields.

TIPS:

1. **Review the job description:** Make sure you have a clear understanding of the requirements for the position you're applying for. Review the job description, qualifications, and responsibilities, and make note of any technical skills that are required or preferred.
2. **Brush up on technical skills:** Based on the requirements of the job, identify the technical skills that you need to brush up on. This could include programming languages, tools, or platforms. Review online tutorials, take online courses, and practice coding exercises to improve your technical skills.
3. **Research the company:** Learn as much as you can about the company you're interviewing with, including its industry, products or services, and technology stack. This will give you an idea of the technical challenges the company may be facing, and allow you to tailor your responses accordingly.
4. **Practice coding exercises:** Many technical interviews will involve coding exercises or challenges. Practice these exercises beforehand to become familiar with the types of problems you may be asked to solve.
5. **Be prepared to talk about your experience:** Be ready to discuss your past technical experiences, including projects you've worked on, problems you've solved, and technical skills you've used. Use concrete examples to demonstrate your skills and abilities.
6. **Stay up-to-date with industry trends:** Keep yourself updated with the latest trends and technologies in your industry. Read industry publications, attend conferences and meetups, and network with professionals to stay current with the latest developments.

7. Stay calm and confident: Technical interviews can be challenging and nerve-racking, but try to stay calm and confident. Remember that the interviewer is not only evaluating your technical skills, but also your problem-solving ability, communication skills, and teamwork skills. Be sure to listen carefully to the interviewer's questions, clarify any doubts, and present your solutions clearly and effectively.