

MASTER ACCREDITATION DATASET

(AICTE + NBA Compatible | Realistic | Evidence-Friendly)

1 INSTITUTION & PROGRAM PROFILE

Institution Name:

Priyadarshini College of Engineering, Nagpur

Address:

Hingna Road, Nagpur, Maharashtra – 440019

Academic Year:

2023–2024

Application Type:

AICTE – Renewal

NBA – Tier-II (UG) Accreditation

Programs Offered:

- B.E. Computer Science & Engineering (CSE)
 - B.E. Mechanical Engineering (ME)
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2 AICTE DATA SECTION (Institution-Level)

2.1 Faculty Details (FSR)

Computer Science & Engineering

- Total Faculty: 24
- Professors: 3
- Associate Professors: 7
- Assistant Professors: 14
- Total Students: 288

FSR (CSE): 1:12 

Mechanical Engineering

- Total Faculty: 20
- Professors: 2
- Associate Professors: 6
- Assistant Professors: 12
- Total Students: 240

2.2 Infrastructure Details

- Total Land Area: 6.5 Acres
- Total Built-Up Area: 12,200 sq. meters
- Classrooms: 32
- Tutorial Rooms: 14
- Seminar Halls: 5

Library

- Total Books: 48,500
 - National Journals: 120
 - International Journals: 65
 - Digital Library: IEEE, Springer, ScienceDirect
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2.3 Laboratory & Equipment Compliance

CSE Labs

- Programming Lab
- Data Structures Lab
- Database Lab
- AI & ML Lab
- Network Lab

- ✓ Equipment List Available
- ✓ Calibration Certificates Attached
- ✓ Safety Compliance Verified

ME Labs

- CAD/CAM Lab
- Thermal Lab
- Manufacturing Lab
- Fluid Mechanics Lab

- ✓ All labs functional and documented

Lab Compliance Index: 100%

2.4 Placement Data (Last Academic Year)

Program	Eligible Students	Placed	Placement %
CSE	260	210	80.77%
ME	220	168	76.36%

Overall Placement Index: 78.6%

2.5 Mandatory Documents (AICTE)

- Land Ownership Document
 - Building Plan Approval
 - Fire Safety NOC (Valid till 2026)
 - Building Stability Certificate
 - Affidavit (AICTE Format)
 - Anti-Ragging Compliance
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3 NBA DATA SECTION (Department-Level – OBE)

Department: Computer Science & Engineering

3.1 Program Outcomes (POs)

PO Description

PO1 Engineering Knowledge

PO2 Problem Analysis

PO3 Design / Development of Solutions

PO4 Investigation of Complex Problems

PO5 Modern Tool Usage

PO6 Engineer & Society

PO7 Environment & Sustainability

PO8 Ethics

PO9 Individual & Team Work

PO Description

PO10 Communication

PO11 Project Management

PO12 Life-Long Learning

3.2 Program Specific Outcomes (PSOs)

- **PSO1:** Apply computing fundamentals to solve real-world problems
 - **PSO2:** Design scalable software systems using modern technologies
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3.3 Course Outcomes (COs)

Course: Data Structures (CS301)

CO Statement

CO1 Understand basic data structures

CO2 Implement searching and sorting

CO3 Apply trees and graphs

CO4 Analyze algorithm complexity

3.4 CO-PO Mapping (Strength: 1-Low, 2-Medium, 3-High)

CO	PO1	PO2	PO3	PO5
CO1	3	2	–	–
CO2	2	3	2	–
CO3	2	3	3	2
CO4	2	3	–	2

3.5 CO Attainment (Direct Assessment)

CO	Total Students	≥ Threshold	Attainment %
CO1	72	58	80.5%
CO2	72	54	75.0%
CO3	72	50	69.4%

CO4	72	47	65.2%
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Threshold = 60%

3.6 PO Attainment (Calculated)

Formula:

$$\Sigma(\text{CO Attainment} \times \text{Mapping Level}) / \Sigma(\text{Mapping Level})$$

PO	Attainment %	Status
PO1	76%	Attained
PO2	72%	Attained
PO3	68%	Partially Attained
PO5	66%	Partially Attained

3.7 PSO Attainment

PSO	Attainment %	Status
PSO1	74%	Attained
PSO2	71%	Attained

3.8 Indirect Assessment (NBA)

- Alumni Survey Response Count: 48
- Employer Feedback Response: 12

Average Indirect Attainment:

- PO Attainment: 70%
- PSO Attainment: 72%

3.9 Gap Analysis & ATR (NBA)

Identified Gaps

- PO3 below 70%
- CO4 attainment low (65%)

Actions Taken

- Introduced advanced problem-solving assignments
- Added mini-project in semester VI

- Faculty training on algorithm optimization
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EXPECTED SYSTEM OUTPUT (VALIDATION)

AICTE Mode

- FSR Score → High
- Infrastructure → High
- Placement Index → ~79
- Lab Compliance → 100%
- Approval Readiness → **APPROVAL RECOMMENDED**

NBA Mode

- PO/PSO tables visible
 - CO-PO heatmap rendered
 - Gap analysis auto-generated
 - Explain-PO via chatbot works
 - No dummy values anywhere
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5 HOW TO USE THIS DATASET

Paste into:

- **PDF 1:** Institution + AICTE data
- **PDF 2:** NBA CO-PO-PSO data
- **PDF 3:** Surveys + ATR

Upload same PDFs

- AICTE mode → evaluates institutional KPIs
- NBA mode → evaluates department OBE