KARNATAKA POLYTECHNIC DIPLOMA (OFFICIAL DTE C-20 SYLLABUS)

ALL 12 BRANCH-WISE TAILORED ATS RESUME TEMPLATES (MASTER REFERENCE HANDBOOK)

Curated by Advitiya Academy of Learning, Vijayanagar, Bengaluru • Ready for PSUs (HAL, BEL, BHEL, BEML), MNCs & MSMEs

HOW TO USE THIS MASTER PACK (OR DOWNLOAD YOUR SEPARATE 1-PAGE BRANCH FILE):

1. FOR MOBILE PHONE USERS (RECOMMENDED): Download your branch's separate 1-Page file from the 'Branch_Wise_Resumes' folder or the Branch Dropdown on adwitiyaacademyoflearning.com/internships.html so you never accidentally upload all 13 pages!
2. FOR DESKTOP WORD USERS: Jump to your branch's Page Number below (Pages 2–13), replace the bracketed placeholders, and choose 'Print Current Page Only' when exporting to PDF.
3. 100% DTE C-20 SYLLABUS ALIGNED: Every template below is pre-filled with your branch's exact C-20 Semesters 1–4 subjects, integrated practical labs, and 5th-Semester Specialization Pathways.

Page	DTE Code	DTE Karnataka Polytechnic Diploma Branch	Official C-20 5th-Sem Specialization Pathways Covered
Page 2	20CS — CSE	COMPUTER SCIENCE & ENGINEERING (20CS)	Full Stack Development (20CS51I) / AI & ML (20CS52I) / Cyber Security (20CS53I) / Cloud Computing (20CS54I)
Page 3	20IS — ISE	INFORMATION SCIENCE & ENGINEERING (20IS)	Full Stack Enterprise Web Development / Cloud Infrastructure & IT Service Management / Data Analytics & BI
Page 4	20AI — AIML	ARTIFICIAL INTELLIGENCE & MACHINE LEARNING (20AI)	Applied Machine Learning & Predictive Modelling / Computer Vision (OpenCV) / Data Analytics & Business Intelligence
Page 5	20EC — ECE	ELECTRONICS & COMMUNICATION ENGINEERING (20EC)	Industrial IoT & Embedded Systems (20EC51I) / VLSI Design & Verification (20EC52I) / Industrial Automation (20EC53I)
Page 6	20EE — EEE	ELECTRICAL & ELECTRONICS ENGINEERING (20EE)	Renewable Energy & Solar PV (20EE51I) / Industrial Automation & Drives (20EE52I) / Electric Vehicle Tech (20EE53I) / Electrical Utility Engg
Page 7	20ME — MECH	MECHANICAL ENGINEERING (20ME) / TOOL & DIE / MTT	CAD/CAM & Additive Manufacturing (20ME51I) / Industrial Automation & Mechatronics (20ME52I) / Tool & Die Making (20ME53I)
Page 8	20CE — CIVIL	CIVIL ENGINEERING (20CE) & INFRASTRUCTURE	Construction Project Management & QS Billing (20CE51I) / Structural Detailing & BIM (20CE52I) / Highway & Metro Infrastructure (20CE53I)
Page 9	20AU — AUTO	AUTOMOBILE ENGINEERING (20AU) & ELECTRIC VEHICLES	Electric & Hybrid Vehicles (EHV Powertrain & BMS) / Autotronics & Engine Management Systems / Dealership Service & Workshop Management
Page 10	20MT — MECHATRONICS	MECHATRONICS ENGINEERING (20MT) & ROBOTICS	Factory Automation & Industry 4.0 IIoT / Industrial Robotics & Automated Guided Vehicles / CNC & Electro-Pneumatic Systems
Page 11	20CH — CHEMICAL	CHEMICAL ENGINEERING (20CH)	Petrochemical, Bulk Drug (API) & Specialty Chemical Operations / Process Safety (HAZOP) & Environmental Pollution Control
Page 12	20PT — POLYMER	POLYMER TECHNOLOGY (20PT) & PLASTICS PROCESSING	Precision Injection Moulding & Tool Room Operations / Polymer Testing, QA/QC & Sustainable Plastics / Rubber Compounding
Page 13	20AR — ARCH / ID	ARCHITECTURE ASSISTANTSHIP (20AR) & INTERIOR DESIGN (20ID)	BIM & Architectural Working Drawing Documentation / Commercial & Residential Interior Fit-Out & Site Supervision

PRO-TIP FOR KARNATAKA PSU & MSME APPLICATIONS: Always attach your 1-Page Branch Resume along with the Polytechnic Principal NOC Letter (Template A2) when applying to HAL, BEL, BHEL, BEML, BMRCL, KPTCL, Bosch, Toyota, or Peenya MSMEs. Need help with your 6th-Sem DTE Report, Viva, or DCET 2027 Coaching? WhatsApp Advitiya Academy at +91 89717 55960.

[STUDENT FULL NAME]

Final-Year DIPLOMA IN COMPUTER SCIENCE & ENGINEERING (20CS)

Location: [City / District], Karnataka | Mobile: +91 [10-Digit Number] | Email: [yourname@gmail.com] | Reg No: [DTE Reg No] | NATS ID: [Optional]

1. 6TH-SEMESTER DTE C-20 INTERNSHIP & CAREER OBJECTIVE

Final-Year Diploma in Computer Science & Engineering student (DTE Karnataka C-20 Curriculum — 20CS) with strong hands-on proficiency in Python, Object-Oriented Java, SQL/PL-SQL Database Management, Computer Hardware & Linux Administration (CHMA), and Full-Stack Web Development. Seeking a 16-week 6th-Semester Industry Internship (400 Marks) to build and test software applications.

Target Internship Roles: Software Developer Intern • Full-Stack Web Intern • Python & Java Intern • QA Testing & IT Support Intern

2. ACADEMIC QUALIFICATIONS (DTE KARNATAKA C-20 CURRICULUM)

Qualification / Programme	Polytechnic College / High School & City	Board / Curriculum	Aggregate % / CGPA
Diploma (20CS — CSE) – 6th Sem	[Your Polytechnic College Name, City]	DTE Karnataka (C-20)	[e.g., 84.5% (Sem 1–5)]
SSLC (Class 10)	[Your High School Name, City]	KSEAB / CBSE / ICSE	[e.g., 86.4%]

3. C-20 SYLLABUS SUBJECTS, TECHNICAL SOFTWARE & INTEGRATED LAB PROFICIENCY

• **5th-Sem C-20 Specialization Pathway:** Full Stack Development (20CS51I) / AI & ML (20CS52I) / Cyber Security (20CS53I) / Cloud Computing (20CS54I)

• **Software & Technical Tools:** Python 3.x, Core Java (OOP, JDBC), SQL (MySQL), PL/SQL, MongoDB (NoSQL), HTML5, CSS3, JavaScript, React/Bootstrap, Flask/Django/Spring Boot basics, Git & GitHub, VS Code, Postman.

• **Integrated C-20 Practical Lab Skills:** Computer Hardware, Maintenance & Linux CLI Administration (CHMA - 20CS32P), Relational Database Schema & PL/SQL Triggers (20CS34P), Data Structures with Python (20CS41P), OOP with Java (20CS42P), LAN/WAN Router Configuration, Manual & Automated Testing.

• **Official DTE C-20 Subjects Mastered (Sem 1–4):** Python Programming (20CS31P), CHMA (20CS32P), Computer Networks (20CS33P), DBMS & PL/SQL (20CS34P), Multimedia & Animation (20CS35P), Data Structures with Python (20CS41P), OOP with Java (20CS42P), Operating Systems (20CS43P), Software Engineering (20CS44P) + C-20 Common: Engg Maths, Statistics & Analytics, IT Skills, FEEE, PMS.

4. C-20 5TH-SEM PATHWAY CAPSTONE & 4TH-SEM LAB MINI-PROJECTS

• **5th-Sem C-20 Pathway Project: Smart Polytechnic Attendance, CIE Marks & Fee Portal (Python + MySQL + HTML/CSS):** Developed a role-based CRUD web portal with automated attendance shortage alerts and PDF marksheet generation, reducing manual clerical effort by 65%.

• **4th-Sem C-20 Lab Project: Inventory & GST Billing System using Java OOP (20CS42P) & PL/SQL Triggers:** Built a Java JDBC application connected to MySQL with automated low-stock alerts and hosted it on a local Ubuntu Linux LAN server (CHMA Lab).

5. CERTIFICATIONS, INDUSTRIAL EXPOSURE & 6TH-SEM INTERNSHIP AVAILABILITY

• **Certifications & Technical Exposure:** Infosys Springboard Python, Java & DBMS Certification • NATS 2.0 Registered • Preparing for KEA DCET (B.E. Lateral Entry)

• **DTE C-20 6th-Sem Internship Availability:** Available Full-Time for 16 Weeks (400 Marks / 16 Credits) as per DTE Karnataka C-20 Academic Calendar.

• **College Principal NOC Status:** Official Polytechnic Bonafide & Principal No Objection Certificate (NOC) ready for immediate submission.

• **Languages Known:** English (Professional), Kannada (Native), Hindi [edit as applicable].

[STUDENT FULL NAME]

Final-Year DIPLOMA IN INFORMATION SCIENCE & ENGINEERING (20IS)

Location: [City / District], Karnataka | Mobile: +91 [10-Digit Number] | Email: [yourname@gmail.com] | Reg No: [DTE Reg No] | NATS ID: [Optional]

1. 6TH-SEMESTER DTE C-20 INTERNSHIP & CAREER OBJECTIVE

Final-Year Diploma in Information Science & Engineering student (DTE Karnataka C-20 Curriculum — 20IS) skilled in Enterprise Web Development, Relational Database Design (MySQL/PL-SQL), Core Java, Python Scripting, and Software Quality Assurance. Seeking a 16-week 6th-Semester Industry Internship in Web Development, QA Testing, Cloud IT Support, or Business Analytics.

Target Internship Roles: Web Application Intern • Software QA & Testing Intern • ERP/MIS & Database Support Intern • Cloud IT Intern

2. ACADEMIC QUALIFICATIONS (DTE KARNATAKA C-20 CURRICULUM)

Qualification / Programme	Polytechnic College / High School & City	Board / Curriculum	Aggregate % / CGPA
Diploma (20IS — ISE) – 6th Sem	[Your Polytechnic College Name, City]	DTE Karnataka (C-20)	[e.g., 84.5% (Sem 1–5)]
SSLC (Class 10)	[Your High School Name, City]	KSEAB / CBSE / ICSE	[e.g., 86.4%]

3. C-20 SYLLABUS SUBJECTS, TECHNICAL SOFTWARE & INTEGRATED LAB PROFICIENCY

• **5th-Sem C-20 Specialization Pathway:** Full Stack Enterprise Web Development / Cloud Infrastructure & IT Service Management / Data Analytics & BI

• **Software & Technical Tools:** Python 3, Core Java, HTML5, CSS3, JavaScript, Bootstrap/React, MySQL, PL/SQL, Postman API Testing, Jira Bug Tracking, AWS Cloud Basics, Advanced MS Excel (Pivot Tables & Analytics).

• **Integrated C-20 Practical Lab Skills:** Database Normalization & Stored Procedures, Web UI/UX Design, Manual & Functional Test Case Execution, OS Installation & Network Troubleshooting (CHMA), ERP & MIS Workflow Documentation.

• **Official DTE C-20 Subjects Mastered (Sem 1–4):** Python Programming, Computer Hardware & Network Admin (CHMA), DBMS (MySQL & PL/SQL), Data Structures with Python, OOP with Java, Web Technologies, Software Engineering & QA Testing, ERP/MIS Basics + C-20 Common: Engg Maths, Statistics & Analytics, IT Skills, FEEE, PMS.

4. C-20 5TH-SEM PATHWAY CAPSTONE & 4TH-SEM LAB MINI-PROJECTS

• **5th-Sem C-20 Pathway Project: Cloud-Hosted Clinic Appointment & Patient Records MIS (Python + MySQL):** Designed and deployed a secure web Management Information System (MIS) with doctor/receptionist logins and validated 45+ functional test cases via Postman.

• **4th-Sem C-20 Lab Project: Retail Sales & Customer Analytics Dashboard (SQL + Python Pandas + Excel):** Cleaned and analyzed 5,000+ retail billing records using SQL queries and Statistics & Analytics (20SC02P) techniques to track monthly revenue KPIs.

5. CERTIFICATIONS, INDUSTRIAL EXPOSURE & 6TH-SEM INTERNSHIP AVAILABILITY

• **Certifications & Technical Exposure:** Infosys Springboard Web & SQL Certification • NATS 2.0 Registered • Preparing for KEA DCET

• **DTE C-20 6th-Sem Internship Availability:** Available Full-Time for 16 Weeks (400 Marks / 16 Credits) as per DTE Karnataka C-20 Academic Calendar.

• **College Principal NOC Status:** Official Polytechnic Bonafide & Principal No Objection Certificate (NOC) ready for immediate submission.

• **Languages Known:** English (Professional), Kannada (Native), Hindi [edit as applicable].

[STUDENT FULL NAME]

Final-Year DIPLOMA IN ARTIFICIAL INTELLIGENCE & MACHINE LEARNING (20AI)

Location: [City / District], Karnataka | Mobile: +91 [10-Digit Number] | Email: [yourname@gmail.com] | Reg No: [DTE Reg No] | NATS ID: [Optional]

1. 6TH-SEMESTER DTE C-20 INTERNSHIP & CAREER OBJECTIVE

Analytical Final-Year Diploma in Artificial Intelligence & Machine Learning student (DTE Karnataka C-20 Curriculum — 20AI) trained in Python for Data Science, Statistics & Analytics, Exploratory Data Analysis (EDA), SQL, and Supervised/Unsupervised ML. Seeking a 16-week 6th-Semester Internship in Data Analytics, AI Application Development, or Python Automation.

Target Internship Roles: AI / Machine Learning Intern • Data Analyst & Python Intern • Business Intelligence (PowerBI) Intern • Python Automation Intern

2. ACADEMIC QUALIFICATIONS (DTE KARNATAKA C-20 CURRICULUM)

Qualification / Programme	Polytechnic College / High School & City	Board / Curriculum	Aggregate % / CGPA
Diploma (20AI — AIML) – 6th Sem	[Your Polytechnic College Name, City]	DTE Karnataka (C-20)	[e.g., 84.5% (Sem 1–5)]
SSLC (Class 10)	[Your High School Name, City]	KSEAB / CBSE / ICSE	[e.g., 86.4%]

3. C-20 SYLLABUS SUBJECTS, TECHNICAL SOFTWARE & INTEGRATED LAB PROFICIENCY

• **5th-Sem C-20 Specialization Pathway:** Applied Machine Learning & Predictive Modelling / Computer Vision (OpenCV) / Data Analytics & Business Intelligence

• **Software & Technical Tools:** Python (NumPy, Pandas, Matplotlib, Seaborn, Scikit-Learn, OpenCV basics), SQL (MySQL), PowerBI / Tableau / Advanced Excel Dashboards, Jupyter Notebook, Google Colab, Streamlit, Git.

• **Integrated C-20 Practical Lab Skills:** Data Cleaning & Preprocessing, Exploratory Data Analysis (EDA), Regression & Classification Model Training (Linear/Logistic, Decision Trees, Random Forest, K-Means), Model Evaluation (RMSE, Precision/Recall, F1), REST API & Streamlit Deployment.

• **Official DTE C-20 Subjects Mastered (Sem 1–4):** Python for Data Science, Statistics & Analytics (20SC02P), Data Structures with Python, Mathematical Foundations for ML (Linear Algebra & Probability), DBMS (SQL & NoSQL), Machine Learning Algorithms, Data Visualization + C-20 Common: Engg Maths, IT Skills, FEEE, PMS.

4. C-20 5TH-SEM PATHWAY CAPSTONE & 4TH-SEM LAB MINI-PROJECTS

• **5th-Sem C-20 Pathway Project: Karnataka District Crop Yield & Rainfall Prediction App (Scikit-Learn + Streamlit):** Cleaned 10,000+ rows of Karnataka agricultural data in Pandas, trained a Random Forest regression model (89% R2 score), and deployed an interactive Streamlit web UI.

• **4th-Sem C-20 Lab Project: Automated Webcam Face Attendance & Defect Detection using OpenCV & Python:** Built a real-time image classification script that logs timestamped attendance directly into a MySQL/CSV database.

5. CERTIFICATIONS, INDUSTRIAL EXPOSURE & 6TH-SEM INTERNSHIP AVAILABILITY

• **Certifications & Technical Exposure:** Infosys Springboard AI & Data Science Certified • Kaggle / GitHub Portfolio • Preparing for KEA DCET

• **DTE C-20 6th-Sem Internship Availability:** Available Full-Time for 16 Weeks (400 Marks / 16 Credits) as per DTE Karnataka C-20 Academic Calendar.

• **College Principal NOC Status:** Official Polytechnic Bonafide & Principal No Objection Certificate (NOC) ready for immediate submission.

• **Languages Known:** English (Professional), Kannada (Native), Hindi [edit as applicable].

[STUDENT FULL NAME]

Final-Year DIPLOMA IN ELECTRONICS & COMMUNICATION ENGINEERING (20EC)

Location: [City / District], Karnataka | Mobile: +91 [10-Digit Number] | Email: [yourname@gmail.com] | Reg No: [DTE Reg No] | NATS ID: [Optional]

1. 6TH-SEMESTER DTE C-20 INTERNSHIP & CAREER OBJECTIVE

Practical-minded Final-Year Diploma in Electronics & Communication Engineering student (DTE Karnataka C-20 Curriculum — 20EC) experienced in Electronic Measurements & Testing, 8051/ARM Microcontrollers, Embedded C, PCB Design & Fabrication, and PLC/SCADA. Seeking a 16-week 6th-Semester Industrial Internship at a Defence PSU (BEL/HAL/BHEL-EDN), ESDM, EV, or Embedded IoT company.

Target Internship Roles: Embedded Systems & IoT Intern • PCB Design & Hardware Testing Intern • VLSI / FPGA Trainee • PLC Automation Intern

2. ACADEMIC QUALIFICATIONS (DTE KARNATAKA C-20 CURRICULUM)

Qualification / Programme	Polytechnic College / High School & City	Board / Curriculum	Aggregate % / CGPA
Diploma (20EC — ECE) – 6th Sem	[Your Polytechnic College Name, City]	DTE Karnataka (C-20)	[e.g., 84.5% (Sem 1–5)]
SSLC (Class 10)	[Your High School Name, City]	KSEAB / CBSE / ICSE	[e.g., 86.4%]

3. C-20 SYLLABUS SUBJECTS, TECHNICAL SOFTWARE & INTEGRATED LAB PROFICIENCY

• **5th-Sem C-20 Specialization Pathway:** Industrial IoT & Embedded Systems (20EC51I) / VLSI Design & Verification (20EC52I) / Industrial Automation (20EC53I)

• **Software & Technical Tools:** KiCad / EasyEDA / OrCAD (Schematic & 2-Layer PCB Layout), Keil uVision (8051 & ARM Cortex), Arduino IDE (ESP32/NodeMCU), Xilinx Vivado / ModelSim (Verilog HDL basics), Proteus / Multisim, PLC Ladder Logic.

• **Integrated C-20 Practical Lab Skills:** Through-Hole & SMD Soldering/Rework, Electronic Measurements & Testing (20EC33P — DSO, CRO, Function Generator, LCR & Multimeter Debugging), Sensor & Actuator Interfacing (UART, I2C, SPI, MQTT), PLC & SCADA Interfacing (20EC42P).

• **Official DTE C-20 Subjects Mastered (Sem 1–4):** Analog Electronics (20EC31P), Digital Electronics (20EC32P), Electronic Measurements & Testing (20EC33P), Communication Systems (20EC34P), Microcontrollers & Applications — 8051/ARM (20EC41P), Industrial Automation — PLC & SCADA (20EC42P), Embedded Systems (20EC43P), PCB Design + C-20 Common: Engg Maths, Statistics & Analytics, IT Skills, FEEE, PMS.

4. C-20 5TH-SEM PATHWAY CAPSTONE & 4TH-SEM LAB MINI-PROJECTS

• **5th-Sem C-20 Pathway Project: Industrial IoT 3-Phase Motor Health, Vibration & Temperature Logger (ESP32 + Custom PCB):** Designed a 2-layer sensor interface PCB in KiCad and programmed Embedded C firmware on ESP32 to stream live MQTT telemetry with automatic overload relay cutoff.

• **4th-Sem C-20 Lab Project: 8051 / PLC-Based Automated Bottle Filling & Sorting Conveyor Prototype (20EC41P / 20EC42P):** Interfaced IR proximity sensors and solenoid valves using PLC Ladder Logic and tested waveform stability on a Digital Storage Oscilloscope (DSO).

5. CERTIFICATIONS, INDUSTRIAL EXPOSURE & 6TH-SEM INTERNSHIP AVAILABILITY

• **Certifications & Technical Exposure:** IPC-A-610 PCB Soldering & ESD Safety Trained • NATS 2.0 Registered • Preparing for KEA DCET

• **DTE C-20 6th-Sem Internship Availability:** Available Full-Time for 16 Weeks (400 Marks / 16 Credits) as per DTE Karnataka C-20 Academic Calendar.

• **College Principal NOC Status:** Official Polytechnic Bonafide & Principal No Objection Certificate (NOC) ready for immediate submission.

• **Languages Known:** English (Professional), Kannada (Native), Hindi [edit as applicable].

[STUDENT FULL NAME]

Final-Year DIPLOMA IN ELECTRICAL & ELECTRONICS ENGINEERING (20EE)

Location: [City / District], Karnataka | Mobile: +91 [10-Digit Number] | Email: [yourname@gmail.com] | Reg No: [DTE Reg No] | NATS ID: [Optional]

1. 6TH-SEMESTER DTE C-20 INTERNSHIP & CAREER OBJECTIVE

Safety-conscious Final-Year Diploma in Electrical & Electronics Engineering student (DTE Karnataka C-20 Curriculum — 20EE) with hands-on lab training in DC/AC Machines, Transformers & Alternators, Switchgear & Protection, Electrical Utility Engineering, and PLC/SCADA Control Panels. Seeking a 16-week 6th-Semester Internship in Power Utilities (KPTCL/BESCOM), PSUs (BHEL), ABB, or Peenya MSMEs.

Target Internship Roles: Electrical Testing & Substation Intern • Control Panel & PLC/VFD Trainee • Solar PV & EV Battery Intern • Plant Maintenance Intern

2. ACADEMIC QUALIFICATIONS (DTE KARNATAKA C-20 CURRICULUM)

Qualification / Programme	Polytechnic College / High School & City	Board / Curriculum	Aggregate % / CGPA
Diploma (20EE — EEE) – 6th Sem	[Your Polytechnic College Name, City]	DTE Karnataka (C-20)	[e.g., 84.5% (Sem 1–5)]
SSLC (Class 10)	[Your High School Name, City]	KSEAB / CBSE / ICSE	[e.g., 86.4%]

3. C-20 SYLLABUS SUBJECTS, TECHNICAL SOFTWARE & INTEGRATED LAB PROFICIENCY

• **5th-Sem C-20 Specialization Pathway:** Renewable Energy & Solar PV (20EE51I) / Industrial Automation & Drives (20EE52I) / Electric Vehicle Tech (20EE53I) / Electrical Utility Engg

• **Software & Technical Tools:** AutoCAD Electrical (Single-Line Diagrams - SLD & Control Panel GA Layouts), PLC Ladder Programming (Delta WPLSoft / Siemens), MATLAB Simulink, MS Excel Electrical Load & Energy Audit Calculation.

• **Integrated C-20 Practical Lab Skills:** DC Machines & Traction Motors (20EE31P), 3-Phase AC Motors & Star-Delta Starters (20EE32P), Transformer OC/SC & Megger Insulation Testing (20EE33P), LT/HT Switchgear & Protective Relays (ACB, VCB, MCB, MCCB - 20EE42P), Control Panel Wiring & Ferruling, VFD Drives, Earthing & Solar PV Sizing.

• **Official DTE C-20 Subjects Mastered (Sem 1–4):** DC Machines & Traction (20EE31P), AC Motors & Starters (20EE32P), Transformers & Alternators (20EE33P), Transmission & Distribution (20EE34P), Electrical Utility Engg & Energy Auditing (20EE41P), Switchgear & Protection (20EE42P), Industrial Automation — PLC/SCADA (20EE43P), Power Electronics (20EE44P) + C-20 Common: Engg Maths, Statistics, IT Skills, FEEE, PMS.

4. C-20 5TH-SEM PATHWAY CAPSTONE & 4TH-SEM LAB MINI-PROJECTS

• **5th-Sem C-20 Pathway Project: PLC-Controlled Automatic Power Factor Correction (APFC) & Energy Monitoring Panel:** Drafted SLD in AutoCAD Electrical and wired a prototype capacitor-bank switching panel maintaining power factor >= 0.98 under inductive motor loads.

• **4th-Sem C-20 Lab Project: Rooftop Solar PV Charge Controller & 48V Li-Ion EV Battery Protection Circuit (20EE44P):** Built and tested over-voltage, under-voltage, and thermal cut-off relay protection adhering to CEA and Indian Electricity Rules.

5. CERTIFICATIONS, INDUSTRIAL EXPOSURE & 6TH-SEM INTERNSHIP AVAILABILITY

• **Certifications & Technical Exposure:** Electrical Safety, Lockout-Tagout (LOTO) & Substation Safety Trained • NATS 2.0 Registered • Preparing for KEA DCET

• **DTE C-20 6th-Sem Internship Availability:** Available Full-Time for 16 Weeks (400 Marks / 16 Credits) as per DTE Karnataka C-20 Academic Calendar.

• **College Principal NOC Status:** Official Polytechnic Bonafide & Principal No Objection Certificate (NOC) ready for immediate submission.

• **Languages Known:** English (Professional), Kannada (Native), Hindi [edit as applicable].

[STUDENT FULL NAME]

Final-Year DIPLOMA IN MECHANICAL ENGINEERING (20ME) / TOOL & DIE / MTT

Location: [City / District], Karnataka | Mobile: +91 [10-Digit Number] | Email: [yourname@gmail.com] | Reg No: [DTE Reg No] | NATS ID: [Optional]

1. 6TH-SEMESTER DTE C-20 INTERNSHIP & CAREER OBJECTIVE

Detail-oriented Final-Year Diploma in Mechanical Engineering student (DTE Karnataka C-20 Curriculum — 20ME) with strong shopfloor training in 2D/3D CAD Modelling (AutoCAD & SolidWorks), CNC Programming (G-Code & M-Code), Fluid Power (Hydraulics & Pneumatics), and Precision Metrology. Seeking a 16-week 6th-Semester Internship in Aerospace/Defence PSUs (HAL/BEML), Automotive (Toyota/Bosch), or Peenya MSMEs.

Target Internship Roles: Mechanical CAD Design Intern (AutoCAD/SolidWorks) • CNC Turning/VMC Milling Intern • Metrology & QA/QC Intern • Production Trainee

2. ACADEMIC QUALIFICATIONS (DTE KARNATAKA C-20 CURRICULUM)

Qualification / Programme	Polytechnic College / High School & City	Board / Curriculum	Aggregate % / CGPA
Diploma (20ME — MECH) – 6th Sem	[Your Polytechnic College Name, City]	DTE Karnataka (C-20)	[e.g., 84.5% (Sem 1–5)]
SSLC (Class 10)	[Your High School Name, City]	KSEAB / CBSE / ICSE	[e.g., 86.4%]

3. C-20 SYLLABUS SUBJECTS, TECHNICAL SOFTWARE & INTEGRATED LAB PROFICIENCY

• **5th-Sem C-20 Specialization Pathway:** CAD/CAM & Additive Manufacturing (20ME51I) / Industrial Automation & Mechatronics (20ME52I) / Tool & Die Making (20ME53I)

• **Software & Technical Tools:** AutoCAD 2D/3D, SolidWorks (3D Part Modelling, Assembly, Sheet Metal & Production Detailing with GD&T), Mastercam / CNC Fanuc & Siemens G-Code Simulator, MS Excel SPC & 7-QC Sheets.

• **Integrated C-20 Practical Lab Skills:** CNC Turning & 3-Axis VMC Milling Setup & Programming, Conventional Lathe/Milling/Drilling/Surface Grinding (Machine Tool Tech), Precision Metrology (Vernier, Micrometer, Dial Gauge, Bore Gauge, Height Gauge, CMM basics), Electro-Hydraulic & Pneumatic Circuit Assembly (20ME34P), Heat Treatment & Metallography, MIG/TIG/Arc Welding.

• **Official DTE C-20 Subjects Mastered (Sem 1–4):** Engineering Drawing & CAD, Materials & Metallurgy, Mechanical Measurements & Metrology, Strength of Materials (SOM), Thermal Engineering, Fluid Power Engineering — Hydraulics & Pneumatics (20ME34P), Manufacturing Processes, Machine Tool Technology, CNC Programming & Machining, Operations Management (5S, Kaizen, Poka-Yoke) + C-20 Common: Maths, Statistics, IT Skills, FEEE, PMS.

4. C-20 5TH-SEM PATHWAY CAPSTONE & 4TH-SEM LAB MINI-PROJECTS

• **5th-Sem C-20 Pathway Project: SolidWorks 3D Design & Fabrication of Pneumatic Sheet-Metal Punching Fixture (20ME34P / 20ME51I):** Modelled a 14-part 3D CAD assembly with GD&T tolerances, assembled the pneumatic solenoid actuator circuit, and machined the die holder via CNC VMC.

• **4th-Sem C-20 Lab Project: CNC Turning Process Optimization & Precision Metrology Inspection of Stepped Shaft:** Wrote Fanuc G-Code/M-Code program and inspected critical bearing journals within +/-0.02 mm tolerance using Micrometer and Dial Indicator.

5. CERTIFICATIONS, INDUSTRIAL EXPOSURE & 6TH-SEM INTERNSHIP AVAILABILITY

• **Certifications & Technical Exposure:** SolidWorks & AutoCAD 2D/3D Certified • Lean 5S, Kaizen & Shopfloor PPE Safety Trained • Preparing for KEA DCET

• **DTE C-20 6th-Sem Internship Availability:** Available Full-Time for 16 Weeks (400 Marks / 16 Credits) as per DTE Karnataka C-20 Academic Calendar.

• **College Principal NOC Status:** Official Polytechnic Bonafide & Principal No Objection Certificate (NOC) ready for immediate submission.

• **Languages Known:** English (Professional), Kannada (Native), Hindi [edit as applicable].

[STUDENT FULL NAME]

Final-Year DIPLOMA IN CIVIL ENGINEERING (20CE) & INFRASTRUCTURE

Location: [City / District], Karnataka | Mobile: +91 [10-Digit Number] | Email: [yourname@gmail.com] | Reg No: [DTE Reg No] | NATS ID: [Optional]

1. 6TH-SEMESTER DTE C-20 INTERNSHIP & CAREER OBJECTIVE

Field-ready Final-Year Diploma in Civil Engineering student (DTE Karnataka C-20 Curriculum — 20CE) proficient in Total Station & DGPS Surveying, AutoCAD 2D/3D Building & RCC Drawings, Concrete/Material Quality Testing (IS Codes), and KPWD SSR Quantity Estimation. Seeking a 16-week 6th-Semester Site or Design Internship with BMRCL (Namma Metro), L&T, Tier-1 Builders, or Civil Contractors.

Target Internship Roles: Civil Site Execution Intern • Quantity Surveying (QS), BBS & Billing Intern • AutoCAD / Revit Structural Drafting Intern • Total Station Survey Intern

2. ACADEMIC QUALIFICATIONS (DTE KARNATAKA C-20 CURRICULUM)

Qualification / Programme	Polytechnic College / High School & City	Board / Curriculum	Aggregate % / CGPA
Diploma (20CE — CIVIL) – 6th Sem	[Your Polytechnic College Name, City]	DTE Karnataka (C-20)	[e.g., 84.5% (Sem 1–5)]
SSLC (Class 10)	[Your High School Name, City]	KSEAB / CBSE / ICSE	[e.g., 86.4%]

3. C-20 SYLLABUS SUBJECTS, TECHNICAL SOFTWARE & INTEGRATED LAB PROFICIENCY

• **5th-Sem C-20 Specialization Pathway:** Construction Project Management & QS Billing (20CE51I) / Structural Detailing & BIM (20CE52I) / Highway & Metro Infrastructure (20CE53I)

• **Software & Technical Tools:** AutoCAD Civil 2D/3D (Sanction Plans, Sections, RCC Column/Beam/Slab Detailing), Autodesk Revit Architecture/Structure (BIM basics), MS Excel (Quantity Take-Off, Bar Bending Schedule - BBS & KPWD SSR Cost Abstract).

• **Integrated C-20 Practical Lab Skills:** Surveying-I & II with Total Station, Theodolite, Auto-Level & DGPS (20CE32P), Materials of Construction (MoC) & Concrete Mix Testing (Slump Cone, Compressive Strength Cubes as per IS 456:2000, Sieve Analysis, Proctor Soil Compaction), Water & Sanitary Quality Testing, Centering & Rebar Site Verification.

• **Official DTE C-20 Subjects Mastered (Sem 1–4):** Materials of Construction (MoC), Surveying-I & II — Total Station & GPS (20CE32P), Construction Technology, Building Planning & CAD, Hydraulics & Environmental Engg (Water Supply & Sanitary), Design & Detailing of RCC and Steel Structures (IS 456 & IS 800), Highway & Bridge Engg, Estimation, Costing & Valuation, Construction Management + C-20 Common: Maths, Statistics, IT Skills, FEEE, PMS.

4. C-20 5TH-SEM PATHWAY CAPSTONE & 4TH-SEM LAB MINI-PROJECTS

• **5th-Sem C-20 Pathway Project: Planning, IS 456 RCC Detailing, BBS & KPWD SSR Estimation of a G+3 Residential Apartment:** Drafted BBMP/NBC-compliant floor plans and RCC structural reinforcement drawings in AutoCAD, with complete Excel Bar Bending Schedule (BBS) and BOQ.

• **4th-Sem C-20 Lab Project: Topographical Contour Survey & Highway Longitudinal Profile Levelling using Total Station (20CE32P):** Executed closed-traverse Total Station field survey of a 4-acre block, plotted contour grids in AutoCAD, and computed earthwork cut-and-fill volumes.

5. CERTIFICATIONS, INDUSTRIAL EXPOSURE & 6TH-SEM INTERNSHIP AVAILABILITY

• **Certifications & Technical Exposure:** Total Station & DGPS Surveying Field Camp • Construction Site EHS & Scaffolding Safety Trained • Preparing for KEA DCET

• **DTE C-20 6th-Sem Internship Availability:** Available Full-Time for 16 Weeks (400 Marks / 16 Credits) as per DTE Karnataka C-20 Academic Calendar.

• **College Principal NOC Status:** Official Polytechnic Bonafide & Principal No Objection Certificate (NOC) ready for immediate submission.

• **Languages Known:** English (Professional), Kannada (Native), Hindi [edit as applicable].

[STUDENT FULL NAME]

Final-Year DIPLOMA IN AUTOMOBILE ENGINEERING (20AU) & ELECTRIC VEHICLES

Location: [City / District], Karnataka | Mobile: +91 [10-Digit Number] | Email: [yourname@gmail.com] | Reg No: [DTE Reg No] | NATS ID: [Optional]

1. 6TH-SEMESTER DTE C-20 INTERNSHIP & CAREER OBJECTIVE

Hands-on Final-Year Diploma in Automobile Engineering student (DTE Karnataka C-20 Curriculum — 20AU) trained in Petrol/Diesel IC Engine Overhaul, Chassis & Transmission Systems, Autotronics & OBD-II Diagnostics, and Electric/Hybrid Vehicle (EHV) Powertrains. Seeking a 16-week 6th-Semester Internship at an Automotive OEM (Toyota/Bosch/Volvo/TVS), EV Startup (Ather/Ola), or Authorised Service Centre.

Target Internship Roles: Automobile Service & OBD Diagnostics Intern • EV Powertrain & Battery Pack Intern • OEM Plant Production Intern • Warranty & Floor Supervisor Trainee

2. ACADEMIC QUALIFICATIONS (DTE KARNATAKA C-20 CURRICULUM)

Qualification / Programme	Polytechnic College / High School & City	Board / Curriculum	Aggregate % / CGPA
Diploma (20AU — AUTO) – 6th Sem	[Your Polytechnic College Name, City]	DTE Karnataka (C-20)	[e.g., 84.5% (Sem 1–5)]
SSLC (Class 10)	[Your High School Name, City]	KSEAB / CBSE / ICSE	[e.g., 86.4%]

3. C-20 SYLLABUS SUBJECTS, TECHNICAL SOFTWARE & INTEGRATED LAB PROFICIENCY

• **5th-Sem C-20 Specialization Pathway:** Electric & Hybrid Vehicles (EHV Powertrain & BMS) / Autotronics & Engine Management Systems / Dealership Service & Workshop Management

• **Software & Technical Tools:** OBD-II ECU Fault Diagnostic Scanners, AutoCAD 2D/3D Automotive Component Drafting, EV Battery Management System (BMS) Monitoring Software, Dealership Management System (DMS - Job Cards, Warranty & Spare Parts Inventory).

• **Integrated C-20 Practical Lab Skills:** 4-Stroke MPFI Petrol & BS-VI CRDI Diesel Engine Dismantling, Inspection & Valve Timing, Manual/Automatic Gearbox, Clutch & Differential Overhaul, Hydraulic & Pneumatic ABS Brake Servicing, Computerized 3D Wheel Alignment & Balancing, EV BLDC/PMSM Motor & Li-Ion Battery Testing.

• **Official DTE C-20 Subjects Mastered (Sem 1–4):** Automobile Engines (Petrol & Diesel), Automobile Chassis & Transmission, Automotive Electrical & Electronics, Vehicle Maintenance & Garage Practice, Autotronics & Engine Management Systems (EMS/ECU/OBD), Electric & Hybrid Vehicles (EHV), Motor Vehicle Act (MV Act), RTO Norms & Transport Management + C-20 Common: Maths, Statistics, IT Skills, FEEE, PMS.

4. C-20 5TH-SEM PATHWAY CAPSTONE & 4TH-SEM LAB MINI-PROJECTS

• **5th-Sem C-20 Pathway Project: Design & Retrofitting of Two-Wheeler with 48V 1.5kW BLDC Motor & Smart Li-Ion BMS:** Integrated controller, throttle, and LFP battery pack with thermal BMS protection; verified range-per-charge and braking as per AIS/CMVR norms.

• **4th-Sem C-20 Lab Project: BS-VI CRDI Engine Sensor Fault Simulation & OBD-II Diagnostic Protocol (Autotronics Lab):** Diagnosed simulated MAF, Lambda (O2), EGR, and Crankshaft Position sensor trouble codes (DTCs) and documented standard service rectification SOPs.

5. CERTIFICATIONS, INDUSTRIAL EXPOSURE & 6TH-SEM INTERNSHIP AVAILABILITY

• **Certifications & Technical Exposure:** EV Powertrain & High-Voltage Battery Safety Trained • Valid Driving Licence • Preparing for KEA DCET

• **DTE C-20 6th-Sem Internship Availability:** Available Full-Time for 16 Weeks (400 Marks / 16 Credits) as per DTE Karnataka C-20 Academic Calendar.

• **College Principal NOC Status:** Official Polytechnic Bonafide & Principal No Objection Certificate (NOC) ready for immediate submission.

• **Languages Known:** English (Professional), Kannada (Native), Hindi [edit as applicable].

[STUDENT FULL NAME]

Final-Year DIPLOMA IN MECHATRONICS ENGINEERING (20MT) & ROBOTICS

Location: [City / District], Karnataka | Mobile: +91 [10-Digit Number] | Email: [yourname@gmail.com] | Reg No: [DTE Reg No] | NATS ID: [Optional]

1. 6TH-SEMESTER DTE C-20 INTERNSHIP & CAREER OBJECTIVE

Multi-disciplinary Final-Year Diploma in Mechatronics Engineering student (DTE Karnataka C-20 Curriculum — 20MT) combining Mechanical 3D CAD/CNC Machining with Electro-Pneumatics, PLC/SCADA Automation, Microcontrollers, and Industrial Robotics. Seeking a 16-week 6th-Semester Internship in Factory Automation, SPM Manufacturing, Robotics (ABB/Fanuc/Bosch), or Precision Engineering.

Target Internship Roles: Mechatronics & Industrial Automation Intern • PLC, HMI & Robotics Trainee • Special Purpose Machine (SPM) Assembly Intern • CNC Maintenance Intern

2. ACADEMIC QUALIFICATIONS (DTE KARNATAKA C-20 CURRICULUM)

Qualification / Programme	Polytechnic College / High School & City	Board / Curriculum	Aggregate % / CGPA
Diploma (20MT — MECHATRONICS) – 6th Sem	[Your Polytechnic College Name, City]	DTE Karnataka (C-20)	[e.g., 84.5% (Sem 1–5)]
SSLC (Class 10)	[Your High School Name, City]	KSEAB / CBSE / ICSE	[e.g., 86.4%]

3. C-20 SYLLABUS SUBJECTS, TECHNICAL SOFTWARE & INTEGRATED LAB PROFICIENCY

• **5th-Sem C-20 Specialization Pathway:** Factory Automation & Industry 4.0 IIoT / Industrial Robotics & Automated Guided Vehicles / CNC & Electro-Pneumatic Systems

• **Software & Technical Tools:** Festo FluidSIM (Electro-Pneumatics & Hydraulics), Siemens TIA Portal / Delta WPLSoft PLC Ladder Logic, SolidWorks 3D & AutoCAD 2D, Arduino / ESP32 / 8051 IDE, CNC G-Code & M-Code Simulator.

• **Integrated C-20 Practical Lab Skills:** PLC to HMI, VFD & Servo/Stepper Drive Wiring, Electro-Pneumatic & Hydraulic Circuit Assembly (5/2 & 3/2 Solenoid Valves, FRL, Cylinders), Inductive/Capacitive/Optical/MEMS Sensor Calibration, 4-Axis/6-Axis Pick-and-Place Robot Programming, CNC Turning/Milling & 3D Printing.

• **Official DTE C-20 Subjects Mastered (Sem 1–4):** Analog & Digital Electronics, Microcontrollers & Embedded C, Fluid Power Automation (Electro-Pneumatics & Hydraulics), PLC Programming, HMI & SCADA, CNC Machines & Automation, Industrial Robotics, Sensors, Transducers & MEMS, Industrial Maintenance & Troubleshooting + C-20 Common: Maths, Statistics, IT Skills, FEEE, PMS.

4. C-20 5TH-SEM PATHWAY CAPSTONE & 4TH-SEM LAB MINI-PROJECTS

• **5th-Sem C-20 Pathway Project: PLC & Electro-Pneumatic Automated Metal/Colour Sorting & Pick-and-Place Conveyor:** Designed conveyor frame in SolidWorks and integrated inductive/optical sensors with a Delta PLC, HMI counter, and pneumatic actuators (25 parts/min).

• **4th-Sem C-20 Lab Project: 4-DOF Robotic Arm Controlled via ESP32 Microcontroller & PWM Servo Kinematics:** 3D-printed robotic links, wired closed-loop servo control, and programmed repeatable pick-and-place coordinates.

5. CERTIFICATIONS, INDUSTRIAL EXPOSURE & 6TH-SEM INTERNSHIP AVAILABILITY

• **Certifications & Technical Exposure:** PLC, Electro-Pneumatics & Robotics Lab Certified • Lockout-Tagout (LOTO) Safety Trained • Preparing for KEA DCET

• **DTE C-20 6th-Sem Internship Availability:** Available Full-Time for 16 Weeks (400 Marks / 16 Credits) as per DTE Karnataka C-20 Academic Calendar.

• **College Principal NOC Status:** Official Polytechnic Bonafide & Principal No Objection Certificate (NOC) ready for immediate submission.

• **Languages Known:** English (Professional), Kannada (Native), Hindi [edit as applicable].

[STUDENT FULL NAME]

Final-Year DIPLOMA IN CHEMICAL ENGINEERING (20CH)

Location: [City / District], Karnataka | Mobile: +91 [10-Digit Number] | Email: [yourname@gmail.com] | Reg No: [DTE Reg No] | NATS ID: [Optional]

1. 6TH-SEMESTER DTE C-20 INTERNSHIP & CAREER OBJECTIVE

Safety-focused Final-Year Diploma in Chemical Engineering student (DTE Karnataka C-20 Curriculum — 20CH) trained in Chemical Process Calculations (Stoichiometry), Fluid Mechanics, Heat & Mass Transfer, Process Control (PID/P&ID), and Industrial EHS/HAZOP Safety. Seeking a 16-week 6th-Semester Internship in Refineries/Fertilizers (MRPL/MCF), Pharma/Biotech (Biocon/Syngene), or Specialty Chemical Plants.

Target Internship Roles: Process Plant Trainee Intern • Chemical / Pharma API Production Intern • QA/QC Analytical Lab Intern • EHS & ETP/ZLD Operations Intern

2. ACADEMIC QUALIFICATIONS (DTE KARNATAKA C-20 CURRICULUM)

Qualification / Programme	Polytechnic College / High School & City	Board / Curriculum	Aggregate % / CGPA
Diploma (20CH — CHEMICAL) – 6th Sem	[Your Polytechnic College Name, City]	DTE Karnataka (C-20)	[e.g., 84.5% (Sem 1–5)]
SSLC (Class 10)	[Your High School Name, City]	KSEAB / CBSE / ICSE	[e.g., 86.4%]

3. C-20 SYLLABUS SUBJECTS, TECHNICAL SOFTWARE & INTEGRATED LAB PROFICIENCY

• **5th-Sem C-20 Specialization Pathway:** Petrochemical, Bulk Drug (API) & Specialty Chemical Operations / Process Safety (HAZOP) & Environmental Pollution Control

• **Software & Technical Tools:** AutoCAD (Process Flow Diagrams - PFD & Piping and Instrumentation Diagrams - P&ID), DWSIM Process Simulation basics, MS Excel Material & Energy Balance Sheets.

• **Integrated C-20 Practical Lab Skills:** Unit Operations (Batch & Fractional Distillation, Shell-and-Tube Heat Exchangers, Evaporators, Filtration, Centrifugal Pumps), Analytical QA/QC Testing (pH, UV-Vis, Titrimetry, Viscosity, Flash/Fire Point), Effluent Water Analysis (BOD, COD, TDS, TSS), PID Control Loop Tuning, cGMP & MSDS Compliance.

• **Official DTE C-20 Subjects Mastered (Sem 1–4):** Chemical Process Calculations (Stoichiometry), Fluid Mechanics (Momentum Transfer), Mechanical Operations (Size Reduction, Filtration, Sedimentation), Heat Transfer, Mass Transfer (I & II), Chemical Reaction Engineering (CRE), Process Instrumentation & Control, Environmental Engg, ETP & Plant Safety (HAZOP) + C-20 Common: Maths, Statistics, IT Skills, FEEE, PMS.

4. C-20 5TH-SEM PATHWAY CAPSTONE & 4TH-SEM LAB MINI-PROJECTS

• **5th-Sem C-20 Pathway Project: Material Balance, P&ID Drafting & Efficiency Study of Pilot Batch Distillation & ETP Unit:** Computed complete stoichiometric material/energy balances, drafted P&ID sheets in AutoCAD, and verified 82% COD reduction across ETP treatment stages.

• **4th-Sem C-20 Lab Project: Overall Heat Transfer Coefficient (U) & LMTD Optimization in a Shell-and-Tube Heat Exchanger:** Measured co-current and counter-current thermal profiles and evaluated fouling resistance in the Heat Transfer Lab.

5. CERTIFICATIONS, INDUSTRIAL EXPOSURE & 6TH-SEM INTERNSHIP AVAILABILITY

• **Certifications & Technical Exposure:** Industrial Chemical Safety, HAZOP, Fire Safety & First-Aid Trained • NATS 2.0 Registered • Preparing for KEA DCET

• **DTE C-20 6th-Sem Internship Availability:** Available Full-Time for 16 Weeks (400 Marks / 16 Credits) as per DTE Karnataka C-20 Academic Calendar.

• **College Principal NOC Status:** Official Polytechnic Bonafide & Principal No Objection Certificate (NOC) ready for immediate submission.

• **Languages Known:** English (Professional), Kannada (Native), Hindi [edit as applicable].

[STUDENT FULL NAME]

Final-Year DIPLOMA IN POLYMER TECHNOLOGY (20PT) & PLASTICS PROCESSING

Location: [City / District], Karnataka | Mobile: +91 [10-Digit Number] | Email: [yourname@gmail.com] | Reg No: [DTE Reg No] | NATS ID: [Optional]

1. 6TH-SEMESTER DTE C-20 INTERNSHIP & CAREER OBJECTIVE

Practical Final-Year Diploma in Polymer Technology student (DTE Karnataka C-20 Curriculum — 20PT) trained in Thermoplastic & Rubber Processing (Injection, Extrusion, Blow & Compression Moulding), Rubber Vulcanization, Mould Setup, and ASTM/IS Quality Testing. Seeking a 16-week 6th-Semester Internship in Automotive Plastics, Packaging, Pipe Extrusion, CIPET, or Rubber Manufacturing.

Target Internship Roles: Polymer Processing & Injection Moulding Intern • Plastics & Rubber QA/QC Testing Intern • Mould Maintenance & Compounding Trainee

2. ACADEMIC QUALIFICATIONS (DTE KARNATAKA C-20 CURRICULUM)

Qualification / Programme	Polytechnic College / High School & City	Board / Curriculum	Aggregate % / CGPA
Diploma (20PT — POLYMER) – 6th Sem	[Your Polytechnic College Name, City]	DTE Karnataka (C-20)	[e.g., 84.5% (Sem 1–5)]
SSLC (Class 10)	[Your High School Name, City]	KSEAB / CBSE / ICSE	[e.g., 86.4%]

3. C-20 SYLLABUS SUBJECTS, TECHNICAL SOFTWARE & INTEGRATED LAB PROFICIENCY

• **5th-Sem C-20 Specialization Pathway:** Precision Injection Moulding & Tool Room Operations / Polymer Testing, QA/QC & Sustainable Plastics / Rubber Compounding

• **Software & Technical Tools:** Microprocessor-Controlled Injection Moulding PLC Interface, AutoCAD 2D Mould Drawing Reading, MS Excel Statistical Quality Control (SQC) & Batch Formulation Sheets.

• **Integrated C-20 Practical Lab Skills:** Injection Moulding Parameter Setup (Barrel Temp, Injection Pressure, Clamping Tonnage, Cooling Cycle), Pipe/Film Extrusion & Blow Moulding, Two-Roll Mill Rubber Compounding & Vulcanization, Polymer QA/QC Testing (Melt Flow Index - MFI, UTM Tensile/Elongation, Izod/Charpy Impact, Shore A/D Hardness, Specific Gravity, Ash Content).

• **Official DTE C-20 Subjects Mastered (Sem 1–4):** Polymer Chemistry & Physics (PP, PE, PVC, ABS, PA6, PC, PET), Polymer Processing Operations (Injection, Extrusion, Blow Moulding), Science & Technology of Rubbers (Vulcanization), Mould & Die Design Basics, Polymer Testing & Quality Control, Plastic Waste Management & Recycling + C-20 Common: Maths, Statistics, IT Skills, FEEE, PMS.

4. C-20 5TH-SEM PATHWAY CAPSTONE & 4TH-SEM LAB MINI-PROJECTS

• **5th-Sem C-20 Pathway Project: Optimization of Injection Moulding Parameters to Eliminate Warpage & Sink Marks in Automotive PP/ABS Parts:** Conducted trial runs varying holding pressure and cooling time on a 120-Ton moulding machine, reducing part rejection rate from 6.5% to 1.2%.

• **4th-Sem C-20 Lab Project: Comparative Mechanical & MFI Testing of Virgin vs. 20% Recycled Polypropylene (PP) Blends:** Performed ASTM-standard Melt Flow Index, UTM Tensile, and Izod Impact tests to validate recycled blend suitability for non-critical housings.

5. CERTIFICATIONS, INDUSTRIAL EXPOSURE & 6TH-SEM INTERNSHIP AVAILABILITY

• **Certifications & Technical Exposure:** Mould Clamping Safety & ASTM Polymer Testing Trained • CIPET / Industrial Exposure • Preparing for KEA DCET

• **DTE C-20 6th-Sem Internship Availability:** Available Full-Time for 16 Weeks (400 Marks / 16 Credits) as per DTE Karnataka C-20 Academic Calendar.

• **College Principal NOC Status:** Official Polytechnic Bonafide & Principal No Objection Certificate (NOC) ready for immediate submission.

• **Languages Known:** English (Professional), Kannada (Native), Hindi [edit as applicable].

[STUDENT FULL NAME]

Final-Year DIPLOMA IN ARCHITECTURE ASSISTANTSHIP (20AR) & INTERIOR DESIGN (20ID)

Location: [City / District], Karnataka | Mobile: +91 [10-Digit Number] | Email: [yourname@gmail.com] | Reg No: [DTE Reg No] | NATS ID: [Optional]

1. 6TH-SEMESTER DTE C-20 INTERNSHIP & CAREER OBJECTIVE

Creative and detail-driven Final-Year Diploma in Architecture Assistantship / Interior Design student (DTE Karnataka C-20 Curriculum — 20AR) proficient in AutoCAD 2D Working Drawings, SketchUp/Revit 3D BIM Modelling, BBMP/NBC Building Bye-Laws, and Interior BOQ Costing. Seeking a 16-week 6th-Semester Internship at an Architectural Firm, Interior Fit-Out Studio (Livspace/HomeLane), or Real Estate Developer.

Target Internship Roles: Junior Architectural CAD Draftsman Intern • 3D BIM & Visualization Intern (Revit/SketchUp) • Interior Design & BOQ Estimation Intern

2. ACADEMIC QUALIFICATIONS (DTE KARNATAKA C-20 CURRICULUM)

Qualification / Programme	Polytechnic College / High School & City	Board / Curriculum	Aggregate % / CGPA
Diploma (20AR — ARCH / ID) – 6th Sem	[Your Polytechnic College Name, City]	DTE Karnataka (C-20)	[e.g., 84.5% (Sem 1–5)]
SSLC (Class 10)	[Your High School Name, City]	KSEAB / CBSE / ICSE	[e.g., 86.4%]

3. C-20 SYLLABUS SUBJECTS, TECHNICAL SOFTWARE & INTEGRATED LAB PROFICIENCY

• **5th-Sem C-20 Specialization Pathway:** BIM & Architectural Working Drawing Documentation / Commercial & Residential Interior Fit-Out & Site Supervision

• **Software & Technical Tools:** AutoCAD 2D (Sanction Plans, Centerline, Floor Plans, Sections, Working Details), Autodesk Revit Architecture (3D BIM Modelling & Sheets), Google SketchUp Pro, Lumion / Enscape / V-Ray Rendering, Adobe Photoshop / Canva Moodboards, MS Excel BOQ.

• **Integrated C-20 Practical Lab Skills:** BBMP / BDA Sanction Drawing Preparation (FAR, Coverage, Setbacks & NBC 2016 Norms), Detailed Working Drawings (Staircase, Toilet, Kitchen Joinery, False Ceiling & Electrical Looping), Building Services (Plumbing, HVAC, Acoustics & Lighting), Site Measurement & Physical Scale Model Making.

• **Official DTE C-20 Subjects Mastered (Sem 1–4):** Architectural Design & Working Drawings, Building Construction & Materials (I, II & III), CAD & 3D BIM Modelling, Climatology & Vernacular Architecture, History of Architecture, Building Services (Water Supply, Sanitation, HVAC, Acoustics & Lighting), Estimation, Specification & BOQ Costing + C-20 Common: Maths, Statistics, IT Skills, PMS.

4. C-20 5TH-SEM PATHWAY CAPSTONE & 4TH-SEM LAB MINI-PROJECTS

• **5th-Sem C-20 Studio Portfolio Project: 18-Sheet Working Drawing Set & 3D Revit BIM Model for G+2 Boutique Residence & Studio:** Developed centerline plan, masonry layouts, staircase/toilet working details, Enscape 3D walkthroughs, and complete Excel Bill of Quantities (BOQ).

• **4th-Sem C-20 Studio Project: Co-Working Office Interior Layout, Modular Furniture Joinery, Acoustic Ceiling & Lighting Plan:** Designed ergonomic seating for 45 workstations with gypsum/grid ceiling layout, electrical looping, and material specification sheets.

5. CERTIFICATIONS, INDUSTRIAL EXPOSURE & 6TH-SEM INTERNSHIP AVAILABILITY

• **Certifications & Technical Exposure:** AutoCAD, SketchUp & Revit BIM Studio Portfolio Ready • Sustainable & Vernacular Architecture Workshop • Preparing for KEA DCET / NATA

• **DTE C-20 6th-Sem Internship Availability:** Available Full-Time for 16 Weeks (400 Marks / 16 Credits) as per DTE Karnataka C-20 Academic Calendar.

• **College Principal NOC Status:** Official Polytechnic Bonafide & Principal No Objection Certificate (NOC) ready for immediate submission.

• **Languages Known:** English (Professional), Kannada (Native), Hindi [edit as applicable].