



**GOVERNMENT OF KARNATAKA  
DEPARTMENT OF  
COLLEGIATE AND  
TECHNICAL EDUCATION  
BENGALURU**



**JSS MAHAVIDYAPEETHA  
JSS POLYTECHNIC FOR THE  
DIFFERENTLY ABLED  
(AUTONOMOUS)  
MYSURU**

**PROGRAM: COMMERCIAL PRACTICE**  
*(Accredited by NBA)*  
***C-21 Curriculum***  
***of***  
***Sixth Semester***  
**W.E.F. 2023-2024**



Government of Karnataka  
Department of Collegiate & Technical Education  
**JSS POLYTECHNIC FOR THE DIFFERENTLY ABLED**  
**(AUTONOMOUS)**  
(Aided by the Govt. of Karnataka and Approved by AICTE, New Delhi)  
MYSURU – 570 006



## **C-21 CURRICULUM AND SCHEME OF EXAMINATION**

**UNDER SEMESTER SYSTEM  
BASED ON CHOICE-BASED CREDIT SYSTEM (CBCS)**

Placed before Polytechnic Academic Board  
*Meeting held on 26-05-2023 for Approval*

### **SIXTH SEMESTER**

**PROGRAM NAME:**

**DIPLOMA IN COMMERCIAL PRACTICE**  
*(Accredited by NBA)*

**PROGRAM CODE: 25**

**W.E.F. 2023-2024**

**CURRICULUM STRUCTURE**

***VI Semester Scheme of Studies - Diploma in Commercial Practice [C-21]***

Pathway	Course Category / Teaching Department	Course Code	Pathway Title	Hours per Semester			Total contact hrs /Semester	Credits	CIE Marks		SEE Marks		Total Marks	Min Marks for Passing (including CIE)	Assigned Grade	Grade Point	SGPA and CGPA
				L	T	P			Max	Min	Max	Min					
Special Pathway																	
Internship	CP	2561	Internship / Project	40 Hours / week  Total 16 Weeks			640	16	240	96	160	64	400	160			Both SGPA & CGPA

**Note: Student shall undergo Internship / Project proposal in the same area as opted in Fifth Semester Pathway.**

**Program Co – Ordinator of CP**

**Principal**

**GOVERNMENT OF KARNATAKA  
DEPARTMENT OF COLLEGIATE AND TECHNICAL EDUCATION  
JSS POLYTECHNIC FOR THE DIFFERENTLY ABLED  
(AUTONOMOUS)**

**Programme: DIPLOMA IN COMMERCIAL PRACTICE**

**PROGRAM SPECIALIZATION  
PATHWAY CAPSTONE PROJECT  
GUIDELINES  
FOR  
COHORT OWNER, STUDENTS AND  
EXAMINERS**

## CAPSTONE PROJECT

### How to design and deliver

The students of Polytechnic Programs will have an opportunity to be part of one of the most challenging educational experiences in the year-3. The students will be trained in the specialization pathways of their interest through bootcamp mode in fifth semester followed by an internship or a capstone project work in sixth semester. Those students who want to do a capstone project, requires to do developmental work on real-world problems which would motivate them to produce practical solutions. It is an opportunity for the students to use the problem-solving tools and techniques to solve the problems while doing the capstone project. With this approach, the learning process is gained through 'by-doing' experience and the students are expected to apply both the Capstone project Management Skills and Technical Skills gained in previous years of polytechnic courses, which will enable them to participate and prepare for future employment.

Working under the guidance of a Cohort owner, students may shape the direction of what they want to be, as well as gain better understanding of the responsibilities they need to shoulder when they undertake a capstone project. Teamwork will be inculcated with the development of good and professional relationships with their cohort owner and team members. The undertaken capstone project can also be used as a basis for employment or Startup by fully exploiting the learning process they have gone through, the skills they have gathered and the experience they have gained from the capstone project.

The guidelines are prepared for Cohort owner, students and examiners enabling them to execute their respective roles and responsibilities in an effective manner.

### Aims of Capstone

1. Promote integration and synthesis within the program of study.
2. Promote meaningful connections between the program of study and career experiences.
3. Improve learner's career preparation and pre professional developments.
4. Demonstrate professional identity as learner's transition from academic to professional World.

### Job Alignment and Professional Scenario

While developing a capstone the goal should always to;

1. Use a real world professional scenario- built out with employer engagement where everpossible.
2. Align skills to be assessed to a job.
3. Explicitly and intentionally developed important learner's skills, competencies and perspectives that are tacitly developed in the curriculum and required in the workplace.
4. Give learner's the freedom to showcase their learning though a demonstrable artifact or output e.g. Technical Product, System, and Service that resolves a real world problem.

**Employer Engagement****Support in capstone development:**

- Provide a problem statement
- Provide a case study background
- Review and feedback on case studies/scenarios developed

**Support in class**

- Mentor learner's during the capstone
- Support cohort owners during class-workshop seminars

**Presentation of Capstone**

- Sit on presentation panel for learner's to give feedback.

**Outcomes**

On successful completion of the capstone project, students will be able to:

- Write Capstone project scope document
- Prepare a capstone project execution plan
- Manage the capstone project from start to finish meeting stated milestones and timelines
- Test and validate the findings
- Demonstrate interpersonal skills, teamwork, and effective use of appropriate technology required for the capstone project

**Responsibilities of the Head of the Department**

The Head of the Department shall coordinate in Executing the Specialization Pathway Capstone projects, their responsibilities can be summarized as follows:

1. To ensure that the Capstone project scope document is relevant to the specialization pathway opted by the students in Fifth semester
2. To assign Cohort owner to the students
3. To maintain a centralized capstone project hub repository to facilitate capstone project management and keeping track of all capstone projects and design changes

**Responsibilities of the Cohort owner**

Students will be supervised by Cohort owner; their responsibilities can be summarized as follows:

- To guide the students in writing the Capstone project scope document
- To guide the students in preparing capstone project execution plan
- To interact with the students once in a week to review the progress of the capstone project work, these sessions shall reinforce/review the concepts, findings and focus on addressing issues relevant to weekly meetings.
- To guide the students in managing the capstone project from start to finish, meeting the stated milestones and timelines
- To guide the students in preparing the capstone project report

- Develop appropriate Rubrics and evaluate the capstone project work as per assessment criteria
- To oversee the capstone project work until the submission of the final report, and Semester End Examination
- Maintain all the documents related to the capstone project work

### Responsibilities of the Students

Students are also required to exercise self-discipline, self-management, job co-ordination, teamwork, and trustworthiness to ensure the success of the capstone project. The expected responsibilities are:

- To write the Capstone project scope document
- To prepare a capstone project execution plan
- To adhere to the weekly meeting schedule with the cohort owner for the purpose of updating their progress and seeking advice on capstone project matters (Attendance is compulsory as per regulation) and submit weekly report
- To Manage the capstone project from start to finish meeting stated milestones and timelines
- To report immediately to the cohort owner any difficulties encountered that would interrupt the work.
- To submit all reports on time

### Group Member Roles and Contributions

The Capstone project groups often function more effectively when group members have designated roles. Each capstone project group shall consist of not more than **four students**. The Three core roles and responsibilities are:

- **Capstone project Lead:** One student in the group shall act as a capstone project lead, who is responsible for keeping the group on task, distributing the workload, meeting deadlines, and ensuring smooth group communication and coordination as well as accountability with the cohort owner and capstone project requirements
- **Documenter Lead:** One student in the group shall act as a documenter lead, who is responsible for recording group discussions and decisions, documenting various aspects of the capstone project's progress, and ensuring well-formed reports and capstone project documents are produced.
- **Development Lead:** Two students in the group shall act as a Development lead, who are responsible for overseeing the collaborative aspects of the capstone project, troubleshooting major technical problems.

The entire capstone project team should be engaged in discussions, documentation, and development of the capstone project. All members are expected to contribute towards the capstone project.

Groups will have to rotate the roles among members for different stages of the capstone project. This will allow members to gain experience through being responsible in different areas of capstone project management.

**Assessment of the capstone project work**

This section is addressed to cohort owner and examiners. It provides information on assessment criteria for the capstone project work. It also provides guidance to students about what examiners will be looking for in evaluating the capstone projects. The Capstone project work will be assessed for 400 marks through formative and summative assessment tools, in formative assessment the capstone project will be evaluated for 240 marks and in summative assessment capstone project will be evaluated for 160 marks

**The Formative Assessment- (Continuous Internal Evaluation- CIE)**

The Formative Assessment is conducted for 240 marks throughout the course in three developmental phases as CIE-I, CIE II and CIE-III. Students shall complete CIE-I before taking CIE-II and complete CIE-II before taking CIE-III, otherwise they will not be eligible to take Semester End Examination

<b>Continuous Internal Evaluation- CIE - I conducted at the end of 4<sup>th</sup> week</b>		
<b>Sl No</b>	<b>Assessment of parameter</b>	<b>Marks</b>
1	Writing the Capstone project scope document	20
2	<b>Capstone project Planning:</b> <ul style="list-style-type: none"> <li>• Work Breakdown Structure (WBS) - 10 marks</li> <li>• Time-line Schedule - 10 marks</li> <li>• Cost Breakdown Structure (CBS) - 10 marks</li> <li>• Risk Analysis - 10 marks</li> </ul>	40
3	Identification of Methodology (Including Literature survey)	20
	<b>Total</b>	<b>80</b>



Continuous Internal Evaluation- CIE - II conducted at the end of 8 <sup>th</sup> week		
Sl. No.	Assessment of parameter	Marks
1	<b>Capstone project Details:</b> <ul style="list-style-type: none"> <li>• Description of Technology Used</li> <li>• Details of Hardware devices</li> <li>• Details of software products</li> <li>• Programming languages</li> <li>• Descriptions of the components in the system</li> <li>• Component diagrams and required design if any</li> <li>• Construction or Fabrication details</li> <li>• Any other information needed to execute the capstoneproject</li> </ul>	80
	<b>Total</b>	<b>80</b>

Continuous Internal Evaluation- CIE - III conducted at the end of 12 <sup>th</sup> week		
SI No	Assessment of Parameter	Marks
1	<b>Testing and validation:</b> Details of laboratory experiments/programming/modelling/simulations/analysis/fabrication/construction etc.,	50
2	Results and inference	30
	<b>Total</b>	<b>80</b>

### The Summative assessment- Semester End Examination (SEE)

During the Summative assessment, students shall demonstrate the outcomes of their Capstone project work to the Panel of Examiners comprising a cohort owner and an external Subject expert

The evaluation criteria are as follows:

SI No	Parameters	Marks
1	Power point presentation on outcomes of the Capstoneproject work	60
2	Demonstration the Capstone project work	60
3	Capstone project Report -Format and Technical writing skill	40
	<b>Total</b>	<b>160</b>

**Plagiarism**

Plagiarism is the act of obtaining or attempting to obtain credit for academic work by representing the work of another as one's own without the necessary and appropriate acknowledgment. If a student is in doubt of the nature of plagiarism, he/she should discuss the matter with the supervisor. If a student is caught committing plagiarism, disciplinary action will be taken against the student

Keeping in view the policy of plagiarism, and avoid piracy of intellectual property, the student needs to follow the citation policy:

- When 10 words are taken together from some established core work, citation becomes essential.
- When the copied content reaches 40 words in accumulation, the fragment needs to be kept under inverted comma (“ ”) in italic.
- It is necessarily required to cite reference in case of any content adopted from anywhere other than internet open sites. It is also that, even in case of open site internet source or any other source the copied contents if found more than 35 percent in aggregate during plagiarism detection, the work shall not be considered for further process and asked to resubmit the report again for the evaluation

**Copyright**

The Polytechnic institutions shall be the owner for all findings, designs, patents, and other intellectual property rights.

**GOVERNMENT OF KARNATAKA  
DEPARTMENT OF COLLEGIATE AND TECHNICAL EDUCATION  
JSS POLYTECHNIC FOR THE DIFFERENTLY ABLED (AUTONOMOUS)  
Programme: DIPLOMA IN COMMERCIAL PRACTICE  
Capstone project**

**FORMAT- 1  
Capstone project Scope Document**

**Capstone project Scope Document**

The capstone project scope clearly describes what the capstone project will deliver and outlines all the work required for completing the capstone project.

.....

Capstone project Title:

Group Members:

Problem Statement:

Objectives:

Capstone project description:

Capstone project Deliverables:

Key milestones:

Constraints:

Estimated Capstone project Duration:

Estimated Capstone project cost:

Date

Signature of the student

Signature of the cohort owner

**GOVERNMENT OF KARNATAKA  
DEPARTMENT OF COLLEGIATE AND TECHNICAL EDUCATION  
JSS POLYTECHNIC FOR THE DIFFERENTLY ABLED (AUTONOMOUS)  
Programme: DIPLOMA IN COMMERCIAL PRACTICE**

**Capstone project**

**Format- 2**

**Work Breakdown Structure**

Capstone project Name : <State the Title of the capstone project >

Capstone Project Members : <List of group members>

Capstone project Objective(s) : < statements describing the capstone project's objective(s)>

**Work Breakdown Structure - Deliverables**

1. Identify the deliverables (in the scope statement) to be produced in the capstone project.  
This highlights the work to be done.
2. Decompose each large deliverable into a hierarchy of smaller deliverables.  
This involves taking a deliverable and breaking it down into lower and lower levels of detail.
3. The lowest level of detail is called a 'work package' which consists of activities and tasks.

Date

Signature of the student

Signature of the cohort owner

**GOVERNMENT OF KARNATAKA  
DEPARTMENT OF COLLEGIATE AND TECHNICAL EDUCATION  
JSS POLYTECHNIC FOR THE DIFFERENTLY ABLED (AUTONOMOUS)  
Programme: DIPLOMA IN COMMERCIAL PRACTICE**

**Capstone project**

**Format- 3 Time - line Schedule**

Capstone project Name: <State the Title of the capstone

project >Capstone project Members: <List of group members>

1. Identify the activities and tasks needed to produce each work package.
2. Identify resources for each task (e.g., time, knowledge, monetary costs etc.)
3. Estimate how long it will take to complete each task. Consider constraints - resources, time, knowledge
4. Determine which tasks are dependent on other tasks and develop a critical path.
5. Develop a schedule of all activities and tasks - weekly and monthly. Work out when each task is scheduled to begin and end. Use a Gantt chart.

Date

Signature of the student

Signature of the cohort owner

**GOVERNMENT OF KARNATAKA  
DEPARTMENT OF COLLEGIATE AND TECHNICAL EDUCATION  
JSS POLYTECHNIC FOR THE DIFFERENTLY ABLED (AUTONOMOUS)  
Programme: DIPLOMA IN COMMERCIAL PRACTICE**

**Capstone project  
Format- 4**

**Cost Breakdown Structure**

Capstone project Name: <State the Title of the capstone

project >Capstone project Members: <List of group members>

A cost breakdown structure (CBS) breaks down cost data into different categories, and helps you manage costs efficiently. It is a crucial part of the capstone project planning and management process, as it allows you to gain better insight into how much you spend and what you spend your capstone project budget on. When you have a solid structure in place, you can have better control of your capstone project costs to avoid going over budget.

**1. Analyze your Work Breakdown Structure**

- Before you can identify your costs, you must first determine what your capstone project entails.
- You can do this by looking at your work breakdown structure in detail, and work out the components that will contribute to the capstone project costs.

**2. Estimate the labor cost of work**

- The next step is to estimate the labor cost of work for each task or activity you have identified in your WBS.
- The time it takes for your team members to finish each work package in the WBS contribute to your labor costs.
- Once you have estimated the labor costs of work for all the tasks, you can use them to work out the final cost of labor for your capstone project.

**3. Estimate the cost of materials**

The next step is to look at the cost of the materials needed to complete each task you identified in your WBS. These costs include

- Raw material costs
- Equipment and parts purchased for this capstone project
- Anything rented for the purpose of the capstone project

**4. Overhead costs.**

- Ensure your CBS also includes an appropriate allocation to overhead costs.
- Overhead include various costs that aren't related to specific tasks, but are necessary for the capstone project to take place.

**5. Build contingency into your CBS**

- No matter how accurate your estimates are, you should still allow for some contingency in your cost breakdown structure in the CBS.

**6. Final-check**

- The last step in creating a cost breakdown structure is to check your estimates against your available budget.
- If your estimate is within the available budget, then you can be confident that the financial aspect of your capstone project will be smooth sailing
- If your CBS comes in higher than the available budget, you can look at ways to control costs.

Date

Signature of the student

Signature of the cohort owner

**GOVERNMENT OF KARNATAKA  
DEPARTMENT OF COLLEGIATE AND TECHNICAL EDUCATION  
JSS POLYTECHNIC FOR THE DIFFERENTLY ABLED (AUTONOMOUS)  
Programme: DIPLOMA IN COMMERCIAL PRACTICE**

**Capstone project**

**Format- 5**

**Capstone project Execution Document**

Capstone project Name: <State the Title of the capstone

project >Capstone project Members: <List of group members>

**Main Deliverables -**

- 1) **Design:** descriptions of the components in the system, Component diagrams, and required design if any.
- 2) **Description of Technology Used:** provide details of Hardware devices, software products, programming languages etc.
- 3) **Fabrication:** fabrication or construction details
- 4) **Testing and validation:** provide the details of Methodologies/ laboratory experiments/ computer programming/ modelling/ simulations/ analysis/ findings etc
- 5) **Results and inference**

Date

Signature of the student

Signature of the cohort owner



**GOVERNMENT OF KARNATAKA  
DEPARTMENT OF COLLEGIATE AND TECHNICAL EDUCATION  
JSS POLYTECHNIC FOR THE DIFFERENTLY ABLED (AUTONOMOUS)  
Programme: DIPLOMA IN COMMERCIAL PRACTICE**

**Capstone project**

**Format- 6 Weekly Meeting Record**

**<For Cohort owner Use>**

Capstone project Title:		
Group Members	1) 2) 3) 4)	<input type="checkbox"/> Present <input type="checkbox"/> Present <input type="checkbox"/> Present <input type="checkbox"/> Present
Date		
Meeting venue		<input type="checkbox"/> On Time
Documents Submitted	<input type="checkbox"/> Status Report	<input type="checkbox"/> On Time
Issues Group Working on		
Assessment of Progress	<input type="checkbox"/> Excellent <input type="checkbox"/> Good <input type="checkbox"/> Satisfactory <input type="checkbox"/> Fair <input type="checkbox"/> Poor	
Notes/ Concerns/ Comments		

Date

Signature of the student

Signature of the cohort owner

**GOVERNMENT OF KARNATAKA  
DEPARTMENT OF COLLEGIATE AND TECHNICAL EDUCATION  
JSS POLYTECHNIC FOR THE DIFFERENTLY ABLED (AUTONOMOUS)  
Programme: DIPLOMA IN COMMERCIAL PRACTICE**

**Capstone project  
Format- 7 Weekly Status Report**

Capstone project Name: <State the Title of the capstone

project >Capstone project Members: <List of group members>

**Status:**

Briefly describe and illustrate the progress.

**Highlights**

List any items of note. Breakthroughs, accomplishments, major decisions, or changes in the capstone project plan Are you on schedule, ahead of schedule or behind schedule?

**Risks or Issues List**

In the following table, list any risk or issue that is critical for the success of the capstone project. This could be anything from “we need to get data” to “how do we ensure that the system is usable” to “performance is unacceptable”. This should be a complete historical list that is kept from the beginning of the capstone project until the end.

Status should be one of New, ongoing, Closed.

The resolution column should be filled in if the issue or risk has been taken care of.

A capstone project may be expected to have around 1-3 active issues or risks that are being managed (new or ongoing) at any given time. If you have more than three, then either you have a capstone project in serious trouble or your criteria for what is "critical to success" is too loose.

Date	Risk or Issue	Description	Resolution	Status

Contd..

**Tasks in Progress or Completed:**

List the tasks that each member of the capstone project worked on up to the present time.

Task Name	Description	Team Member Responsible	Percentage Complete

**Upcoming Tasks:**

List the tasks that each capstone project member is planning to work on in the upcoming Task.

Task Name	Description	Team Member Responsible

Date:

Signature of the students

**GOVERNMENT OF KARNATAKA  
DEPARTMENT OF COLLEGIATE AND TECHNICAL EDUCATION  
JSS POLYTECHNIC FOR THE DIFFERENTLY ABLED (AUTONOMOUS)  
Programme: DIPLOMA IN COMMERCIAL PRACTICE**

**Capstone project**

**Format- 8**

**Student's Daily Log Book**

Capstone project Name: <State the Title of the capstone

project >Capstone project Members: <List of group members>

Day-1	Date:
Capstone project Name:	
Name of the student	
Name of the Cohort owner:	
Remarks of the Cohort owner:	
Record Main actives of the day (including observation, sketches, discussions, etc):	
<div style="text-align: right; margin-top: 20px;">Signature of the Cohort owner</div>	

**Note:** Prepare a A4 size hard bound Student's Diary/ Daily Log book using this format with college and student details

**GOVERNMENT OF KARNATAKA  
DEPARTMENT OF COLLEGIATE AND TECHNICAL EDUCATION  
JSS POLYTECHNIC FOR THE DIFFERENTLY ABLED (AUTONOMOUS)  
Programme: DIPLOMA IN COMMERCIAL PRACTICE**

**Capstone project  
Format- 9  
Capstone project Report Template**

The contents of the capstone project report shall be arranged in the following order:

1. Cover Page
2. Inside Title Page
3. Certificate signed by the Cohort owner and HOD
4. Declaration signed by the Candidate
5. Acknowledgements
6. Executive Summary
7. Table of Contents
8. List of Figures
9. List of Tables
10. Abbreviations/ Notations/ Nomenclature
11. Text of the  
ReportChapter  
1 Chapter 2  
--  
--  
Chapter... n
12. References
13. Appendices
14. non-paper materials (if any)

**The different Chapters in the capstone project report shall have the following content,**

**Chapter 1**

- Introduction
- Scope of the capstone project

**Chapter 2****Capstone Project Planning**

- Work breakdown structure (WBS)
- Timeline Development – Schedule
- Cost Breakdown Structure (CBS)
- Capstone project Risks assessment

**Requirements Specification**

- Functional
- Non-functional (Quality attributes)
- User input
- Technical constraints

**Design Specification**

- Chosen System Design
- Discussion of Alternative Designs
- Detailed Description of Components/Subsystems
- Component 1- n

**Chapter 3****Approach and Methodology**

Discuss the Technology/Methodologies/use cases/ programming/ modeling/ simulations/ analysis/ process design/product design/ fabrication/etc used in the capstone project

**Chapter 4****Test and Validation**

- i. Test Plan
- ii. Test Approach
- iii. Features Tested
- iv. Features not Tested
- v. Findings
- vi. inference

Describe what constitute capstone project success and why? Discuss the product/service tests that will confirm the capstone project succeeds in doing what it intended to do.

**Chapter 5****Business Aspects**

Discuss the novel aspects of this service or product. Address why a company or investor should invest money in this product or service.

- Briefly describe the market and economic outlook of the capstone project for the industry
- Highlight the novel features of the product/service.
- How does the product/service fit into the competitive landscape?
- Describe IP or Patent issues, if any?
- Who are the possible capstone projected clients/customers?

### Financial Considerations

- Capstone project budget
- Cost capstone projections needed for either for profit/nonprofit options.

### Conclusions and Recommendations

- Describe state of completion of capstone project.
- Future Work
- Outline how the capstone project may be extended

### General Guidelines

**Report Size** - Report may contain maximum of about 100 pages including references and appendices.

**Paper Size** - Use A4 size paper

**Paper Quality** - White bond paper weighing 85 g/m<sup>2</sup> or more should be used. Photographs or images with dense colors may be printed in single side on glossy paper.

**Margins** - A margin of 40 mm is to be provided on left and 30 mm on right sides, whereas top and bottom margins should be 30 mm. No print matter should appear in the margin except the page numbers. All page numbers should be centered inside the bottom margin, 20mm from the bottom edge of the paper.

**Font** - Times New Roman (TNR) 12-point font has to be used throughout the running text. The captions for tables and figures should have font size of 11 and foot notes should be set at font size 10. Font sizes for various levels of headings are given in the table below

## CHAPTER 3

### TITLE PAGE-CENTERED TNR 17-POINT BOLD ALL CAPS

#### 3.1.1. Section Heading

Left aligned with number, TNR 17 points, bold and leading caps

##### 3.1.1.1 Second level section heading

Left aligned with number, TNR 14 points, bold and sentence case.

##### 3.1.1.2 Third level section heading

Left aligned with number, TNR 12 points, bold and sentence case.

##### *Fourth-level section heading*

Numbered subsections beyond third level are not recommended. However, fourth-level subsection headings may be included without numbering, TNR 12-point font, left aligned and italicized

Running text should be set in 12-point TNR and fully justified. First line of paragraph should have indentation of 15 mm.

**Line Spacing** - The line spacing in the main text should be 1.5, for quotations, figure captions,

table captions, figure legends, footnotes, and references. The equations, tables, figures, and quotations Single line spacing should be given.

#### **Table / Figure/equation Format-**

Tables, figures, and equations shall be numbered chapter-wise. For example, second figure in Chapter 3 will be numbered Figure 3.2. The figure can be cited in the text as Figure 3.2, Tables shall be numbered similarly (Table 2 in Chapter 3 will be numbered Table 3.2) and shall be cited in the text as Table 3.2. Figure caption shall be located below the figure. Table number and caption shall be located above the table.

#### **Listing of the References**

Referencing is a way to give credit to the writers from whom you have borrowed words and ideas. By citing the work of a particular scholar, you acknowledge and respect the intellectual property rights of that researcher. As a student or academic, you can draw on any of the millions of ideas, insights and arguments published by other writers, many of whom have spent years researching and writing. All you need to do is acknowledge their contribution to your assignment. References are to be listed after last chapter. They are to be listed in alphabetical order and numbered. Within a reference the line spacing should be single. Each reference should be separated by one blank line. The reference number should be left aligned. The text of the reference should have an indentation of 10 mm. The reference format to be followed for journal articles, text books, conference proceedings etc. are given below.

#### **Journals**

1. Parkas, K. (2011). Feedback and optimal sensitivity: Model reference transformations, multiplicative semi norms, and approximate inverses. *IEEE Transactions on Automatic Control*, 26(2): 301–320.

#### **Text books**

1. Myers, D. G. (2007). *Psychology* (1st Canadian ed.). Worth: New York.

#### **Conference proceedings**

1. Payne, D.B. and Gunhold, H.G. (1986). Digital sundials and broadband technology, In *Proc. IOOC-ECOC*, 1986, pp. 557-998.

#### **Reports**

1. Milton, M and Robert, L. (2004). Atmospheric carbon emission through genetic algorithm, Environment and Technical Report No.3., Indian Meteorological Department., New Delhi

#### **Online journals with a DOI (Digital Object Identifier)**

1. Krebs, D.L. and Denton, K. (2006). Explanatory limitations of cognitive developmental approaches to morality. *Psychological Review*, 113(3): 672- 675. doi: 10.1037/0033-295X.113.3.672

#### **Online journals without a DOI**

1. Vicki, G.T., Thomae, M., Cullen, A. and Fernandez, H. (2007). Modeling the hydrological impact on Tropical Forests. *Forest Ecology*, 13(10): 122-132. Retrieved from <http://www.uiowa.edu/~grpproc/crisp/crisp.html>



**Online books**

1. Perfect, T.J. and Schwartz, B. L. (Eds.) (2002). Applied metacognition. Retrieved from <http://www.questia.com/read/107598848> (--If DOI is available, use the DOI instead of a URL)

**Chapters from a book**

1. Krebs, D.L. and Denton, K. (1997). Social illusions and self-deception: The evolution of biases in person perception. In J. A. Simpson & D. T. Kenrick (Eds.), *Evolutionary social psychology* (pp.21-48). Hillsdale, NJ: Erlbaum

**Appendices**

Include data tables, drawings, background calculations, specification lists for equipment used, details of experimental configuration, and other information needed for completeness,

**Page Numbering**

Page numbers for the prefacing materials (Inside title page, dedication, certificate, declaration, acknowledgements, executive summary, table of contents, etc.) of the report shall be in small

Roman numerals and should be centered at the bottom of the pages.

The numbering of the prefacing material starts from the Inside Title Page. However, the number is not printed on the Inside Title Page. Each new item of the prefacing materials listed above should start on a fresh paper on right page. If the content of the prefacing material exceeds one page, it has to be printed on both sides of the paper by starting from the right- side page. For example, if the item „Table of Contents“ extends for 5 pages, it should be printed in fresh paper on right side page with second page of the „Table of Contents“ on the back of the paper and then continued. The page numbers of the prefacing material will be printed in small Roman numerals continuously counting blank pages also. However, the numbers are not printed on the blank pages

The body of the report starting from Chapter 1 should be paginated in Arabic numerals and should be centered at the bottom of the pages. The pagination should start with the first page of Chapter 1 and should continue throughout rest of the report. Each side of a sheet of paper should be counted as a separate page, even if the back side of a sheet of paper is blank. The odd numbered pages are always on the right and even-numbered pages are always on the left. If the end of a chapter is in odd page (right side page) the next chapter should start on odd page i.e., on a fresh paper, and should be numbered as odd only by counting the blank even page also. However, the page number is not printed on the blank pages.

Each of the items - Inside cover page, Certificate, Acknowledgements, executive summary, Table of Contents, List of Figures, List of Tables, Abbreviations, Notations, Nomenclature, each new Chapter, References, and each new Appendix should start on an odd page i.e., on the right side

**Non-Paper Material**

A report may contain non-paper material, such as specimen, CDs and DVDs, Pen drive if necessary. They have to be accommodated in a closed pocket in the back cover page of the

report. The inclusion of non-paper materials must be indicated in the Table of Contents. All non-paper materials must have a label each clearly indicating the name of the candidate, student Register number and the date of submission.

**Binding**

Two hard bounded copies of the capstone project Report shall be submitted for evaluation, the cover page should be printed on sky blue card of 300 g/m<sup>2</sup> or above. One copy is used for Semester End Examination and after the exam it should be maintained in the concerned Head of the department and another copy is maintained at cohort owner

**Electronic Copy**

An electronic version (PDF) of the capstone project report should be submitted to the cohort owner and Head of the department. The file name should contain title of the capstone project, student Register number and date of submission.

**GOVERNMENT OF KARNATAKA**  
**DEPARTMENT OF COLLEGIATE AND TECHNICAL EDUCATION**  
**JSS POLYTECHNIC FOR THE DIFFERENTLY ABLED**  
**(AUTONOMOUS)**  
**Programme: DIPLOMA IN COMMERCIAL PRACTICE**

**INTERNSHIP**  
**GUIDELINES FOR**  
**COHORT OWNER, STUDENTS AND**  
**EXAMINERS**

## INTERNSHIP

### Introduction

The students of Polytechnic Programs will have an opportunity to be part of one of the most challenging educational experiences in the year-3. The students will be trained in the specialization pathways of their interest through boot camp mode in fifth semester, followed by 16-week internship or a project work in sixth semester.

An internship is a professional learning experience which offers meaningful, practical work relevant to a student's field of study or career interest. It gives the students an opportunity for exploring the various career choices and acquire varied skills. It also offers an opportunity to bring out the innovative, creative ideas and energy into the workplace. This effectively aims at developing talent and potentially builds a pipeline for future Job prospects that may be ready for challenging roles in future. Internship has become very crucial for students to gain on-field experience which acts as an advantage for the students who do not have corporate experience.

Internships allow students to examine new situations, work techniques, problem-solving tactics, interpersonal skills, understanding of timelines and targets which would otherwise not be possible unless they were on board. Companies which plan to offer job placements to students also prefer hiring the interns for a short period as a trial wherein they have an opportunity to assess their ability and select them based on their observations over a considerable amount of time. This alternative gives the recruiter a better understanding of the candidate's worth in comparison to the assessment made in couple of interview sessions. Even for the interns it is a win-win situation as they get an opportunity to learn the corporate work culture in advance and later demonstrate their skills at their workplace

### Outcomes

After completing Internship, Interns will be able to,

- Apply the theoretical knowledge and skill during performance of the tasks assigned in internship
- Demonstrate soft skills such as time management, positive attitude and communications skills during performance of the tasks assigned in internship
- Document the Use case on the assigned Task

### Facilitating the Interns by an Internship Provider

- Orient intern in the new workplace. Give interns an overview of the organization, Explain the intern's duties and introduce him or her to co-workers
- Develop an internship job description with clear deliverables and timeline
- Allow the interns in meetings and provide information, resources, and opportunities for professional development
- The interns have never done this kind of work before, they want to know that their work is measuring up to organizational expectations, hence provide professional guidance and mentoring to the intern
- Daily progress report of Intern is to be evaluated by industry supervisor. examine what the intern has produced and make suggestions. Weekly supervision meetings can help to monitor the intern's work.

**Duties Responsibilities of the Cohort owner**

- To facilitate the placement of students for the internship
- To liaison between the college and the internship provider
- To assist the Industrial Training Supervisor during assessment

**Instructions to the Interns**

- Students shall report to the internship provider on the 1st day as per the internship schedule
- Intern is expected to learn about the organization, its structure, product range, market performance, working philosophy etc
- The interns shall work on live projects assigned by the internship provider (OJT-1, OJT-2)
- The Intern shall record all the activities in the daily log book and get the signature of the concerned training supervisor
- Intern shall have 100% attendance during internship programme. In case of unavoidable circumstances students may avail leave with prior permission from the concerned training supervisor of the respective internship provider. However, the maximum leave permitted during internship shall be as per company norms where they are working and intern shall report the leave sanctioned details to their college cohort owner
- The interns shall abide all the Rules and Regulations of internship provider
- Intern shall follow all the safety Regulations of internship provider.
- On completion of the internship, intern shall report to the college and submit the internship certificate mentioning duration of internship, evaluation of interns by internship provider, Student's Diary, report on OJT-1, OJT-2, Use case-1 and Use case-2 to the cohort owner

### Assessment

The Internship will be assessed for 400 marks through formative and summative assessment tools, in formative assessment the internship will be evaluated for 240 marks and in summative assessment internship will be evaluated for 160 marks

#### The Formative Assessment- (Continuous Internal Evaluation- CIE)

The Formative Assessment is conducted for 240 marks throughout the course in three developmental phases as CIE-I, CIE II and CIE-III. Students shall complete CIE-I before taking CIE-II and complete CIE-II before taking CIE-III, otherwise will not be eligible to take Semester End Examination

<b>Continuous Internal Evaluation- CIE - I conducted at the end of 4<sup>th</sup> week</b>		
<b>Sl No</b>	<b>Assessment parameter</b>	<b>Marks</b>
1	Submit a report to the training supervisor and copy to the cohort owner focusing on: <ul style="list-style-type: none"> <li>• Overview of the organization</li> <li>• Vision and mission of the organization</li> <li>• Organization structure</li> <li>• Roles and Responsibilities of personnel in the organization</li> <li>• Products and market performance</li> </ul>	50
2	Give a presentation on the above	30
	<b>Total</b>	<b>80</b>

**Note:** CIE-1 shall be assessed by the Cohort owner for 80 marks using appropriate Rubrics

<b>Continuous Internal Evaluation- CIE - II conducted at the end of 8<sup>th</sup> week</b>		
<b>Sl No</b>	<b>Assessment of On Job Training (OJT)-1 + use case 1</b>	<b>Marks</b>
1	Select any one job role of his/her interest in an organization or role assigned by the training supervisor for next Four weeks and submit a report to the training supervisor and copy to cohort owner focusing on: <ol style="list-style-type: none"> <li>1. Intern's ability to apply the skill and technical knowledge on OJT-1</li> <li>2. Intern's performance on assigned tasks and project</li> <li>3. Extent of Intern's ability to add value to the organization through internship</li> </ol>	50
2	Document a Use case on a task where he is working as intern	30
	<b>Total</b>	<b>80</b>

**Note:**

1. CIE-II shall be assessed by the Industrial Training Supervisor using companies' assessment Tools/Rubrics
2. Cohort owner shall assist the Industrial Training Supervisor during assessment of CIE-II

<b>Continuous Internal Evaluation- CIE -III conducted at the end of 12<sup>th</sup> week</b>		
<b>Sl No</b>	<b>Assessment of On Job Training (OJT)-2 + use case2</b>	<b>Marks</b>
1	Select another job role of his/her interest in an organization or role assigned by the training supervisor for next Four weeks and submit a report to the training supervisor and copy to cohort owner focusing on: <ol style="list-style-type: none"> <li>1. Intern's ability to apply the skill and technical knowledge on OJT-2</li> <li>2. Intern's performance on assigned tasks and project</li> <li>3. Extent of Intern's ability to add value to the organization through internship</li> </ol>	50
2	Documenting of another Use case on a task where he is working as intern	30
	<b>Total</b>	<b>80</b>

**Note:**

1. CIE-III shall be assessed by the Industrial Training Supervisor using companies' assessment Tools/Rubrics
2. Cohort owner shall assist the Industrial Training Supervisor during assessment of CIE-III

**The Summative assessment- Semester End Examination (SEE)**

During the semester end examination, students shall demonstrate the outcomes of their Internship to the Panel of Examiners comprises of a Cohort owner and an external Subject expert The evaluation criteria are as follows

SI No	SEE Evaluation Criteria	Marks
1	<b>Presentation shall include:</b> <ol style="list-style-type: none"> <li>1. Overview of the organization, vision, mission, structure, roles and responsibilities of personnel's, products, market Performance etc - (20 marks)</li> <li>2. The role performed in the organization during OJT-I and Intern's ability to apply the skill and technical knowledge – (20 marks)</li> <li>3. Use case-1- (20 marks)</li> <li>4. The role performed in the organization during OJT-II and Intern's ability to apply the skill and technical knowledge – (20 marks)</li> <li>5. Use case-2- (20 marks)</li> </ol>	100
2	Evaluation of comprehensive Internship Report with special focus on organization profile, OJT-1, OJT-2, Use case-1, Use case-2 and contribution made to the organization	60
	<b>Total</b>	<b>160</b>

**Note:** Cohort owner and External subject expert shall assess the intern separately using an appropriate rubrics and average marks to be tabulate



**GOVERNMENT OF KARNATAKA  
DEPARTMENT OF COLLEGIATE AND TECHNICAL EDUCATION  
JSS POLYTECHNIC FOR THE DIFFERENTLY ABLED (AUTONOMOUS)  
Programme: DIPLOMA IN COMMERCIAL PRACTICE**

**Internship**

**FORMAT - 1**

**Student Internship Application**

(Complete and submit to the Training and Placement Officer)

Student Name			
Student e-mail Id			
Mobile			
Name of the Institute			
Name of the Program			
Specify the Specialization Pathway			
Overall CGPA			
Internship Preferences	Location	Core area	Organization
Preference-1			
Preference-2			
Preference-3			
Cohort owner Signature:  Date			
Student Signature:  Date			

**GOVERNMENT OF KARNATAKA**  
**DEPARTMENT OF COLLEGIATE AND TECHNICAL EDUCATION**  
**JSS POLYTECHNIC FOR THE DIFFERENTLY ABLED (AUTONOMOUS)**  
**Programme: DIPLOMA IN COMMERCIAL PRACTICE**  
**Internship**

**FORMAT - 2**

**Request Letter from Institute to Internship Provider**

(To be forwarded by the Training and Placement Officer/Student)

Date:

To,

.....

.....

-----

Subject: Request for 16 weeks Semester long internship training of Diploma in -----  
engineering Program

Dear Sir/ Madam,

This is to certify your good office to allow Mr/ Ms ----- student of our polytechnic  
perusing

sixth semester diploma in ----- engineering and trained in ----- specialization  
pathway in boot camp mode to render on-the-job internship training in your prestigious  
company

As per the requirement of Diploma in ----- engineering program, he/she is required to  
complete six hundred and forty (640) hours of internship related to his/her specialization

Your support in this regard is highly appreciated

With warm regards,

Signature of Training and Placement  
Officer

**GOVERNMENT OF KARNATAKA**  
**DEPARTMENT OF COLLEGIATE AND TECHNICAL EDUCATION**  
**JSS POLYTECHNIC FOR THE DIFFERENTLY ABLED (AUTONOMOUS)**  
**Programme: DIPLOMA IN COMMERCIAL PRACTICE**

**Internship**

**FORMAT - 3**

**Agreement**

This Agreement is between the student, cohort owner and internship provider. It shall serve to clarify the educational purpose of the internship and to ensure an understanding of the total learning experience among the student, cohort owner and Industrial training supervisor

**Part I: Contact Information**

**Student**

Name: \_\_\_\_\_ Student ID \_\_\_\_\_ Class Year: \_\_\_\_\_

College Address: \_\_\_\_\_ City, State: \_\_\_\_\_

Phone: \_\_\_\_\_ Email: \_\_\_\_\_

**Industrial Supervisor**

Name: \_\_\_\_\_ Designation: \_\_\_\_\_

Company/Organization: \_\_\_\_\_

Address: \_\_\_\_\_ City, State: \_\_\_\_\_ Pin: \_\_\_\_\_

Phone: \_\_\_\_\_ Email: \_\_\_\_\_

**Cohort owner**

Name: \_\_\_\_\_ Designation: \_\_\_\_\_

Phone: \_\_\_\_\_ Email: \_\_\_\_\_

College Address: \_\_\_\_\_

**Academic Credit Information**

Program: \_\_\_\_\_

Pathway: \_\_\_\_\_

Credits: 16

Beginning Date: \_\_\_\_\_

Ending Date: \_\_\_\_\_

Hours per Week: 40

## Part II: The Internship

### Internship Objectives:

Describe What do the interns intend to learn, acquire skill through this internship? Try to use concrete, measurable terms in listing the learning objectives under each of the following categories:

- Knowledge
- Skills

### Job Description:

Describe in as much detail as possible intern's role and responsibilities while on internship. List duties, project to be completed, deadlines, etc. Describe How interns' technical knowledge can be applied at the site of the internship and how they can create value to the organization through internship

**Supervision:** Describe in as much detail as possible the supervision to be provided/needed at the work site. List what kind of instruction, assistance, consultation interns will receive from whom, etc

**Evaluation:** Describe How will interns work performance be evaluated? By whom? When?

## Part III: Agreement

This Agreement may be terminated or amended by student, cohort owner or industry training supervisor at any time upon 7 days written notice, which is received and agreed to by the other parties.

Student \_\_\_\_\_

Date \_\_\_\_\_

Cohort owner \_\_\_\_\_

Date \_\_\_\_\_

Industry Training Supervisor \_\_\_\_\_

Date \_\_\_\_\_

**GOVERNMENT OF KARNATAKA**  
**DEPARTMENT OF COLLEGIATE AND TECHNICAL EDUCATION**  
**JSS POLYTECHNIC FOR THE DIFFERENTLY ABLED (AUTONOMOUS)**  
**Programme: DIPLOMA IN COMMERCIAL PRACTICE**  
**Internship**

**FORMAT 4**

**Student's Daily Log Book**

Day-1	Date:
Time of Arrival	Time of Departure
Dept/Division	Nature of work
Name of the Supervisor With designation and email ID	
Remarks of the Training supervisor:	
<p><b>Signature of Industry Supervisor</b></p>	
Record Main actives of the day (including observation, sketches, discussions, etc)	

**Note:** Prepare a A4 size hard bound Intern work book using this format with college and student details

**GOVERNMENT OF KARNATAKA**  
**DEPARTMENT OF COLLEGIATE AND TECHNICAL EDUCATION**  
**JSS POLYTECHNIC FOR THE DIFFERENTLY ABLED (AUTONOMOUS)**  
**Programme: DIPLOMA IN COMMERCIAL PRACTICE**  
**Internship**

**FORMAT 4**

**Internship Report Template**

The student, after the completion of internship should submit a comprehensive Internship report, The contents of the report shall be arranged in the following order:

1. Cover Page
2. Inside Title Page
3. Internship Certificate issued by the organization
4. Acknowledgements
5. Executive Summary
6. Table of Contents
7. List of Figures
8. List of Tables
9. Abbreviations/ Notations/ Nomenclature
10. Text of the Report
  - **Chapter 1:** Company Profile
  - **Chapter 2:** Describe in as much detail as possible intern's role and responsibilities while on OJT-1. List duties, project completed, etc. Describe How interns' technical knowledge can be applied at the site of the internship and how they can create value to the organization through internship
  - **Chapter 3:** Describe in as much detail as possible intern's role and responsibilities while on OJT-2. List duties, project completed, etc. Describe How interns' technical knowledge can be applied at the site of the internship and how they can create value to the organization through internship
  - **Chapter 4** –Use case-1 and Use case-2
11. Student Profile/Resume
12. Photo Gallery
13. Appendices

## General Guidelines

**Report Size** - Report may contain maximum of about 50 pages including Proto gallery and appendices.

**Paper Size** - Use A4 size paper

**Paper Quality** - White bond paper weighing 85 g/m<sup>2</sup> or more should be used. Photographs or images with dense colors may be printed in single side on glossy paper.

**Margins** - A margin of 40 mm is to be provided on left and 30 mm on right sides, whereas top and bottom margins should be 30 mm. No print matter should appear in the margin except the page numbers. All page numbers should be centered inside the bottom margin, 20mm from the bottom edge of the paper.

**Font** - Times New Roman (TNR) 12-point font has to be used throughout the running text. The captions for tables and figures should have font size of 11 and foot notes should be set at font size 10. Font sizes for various levels of headings are given in the table below

### CHAPTER 3

#### TITLE PAGE-CENTERED TNR 17-POINT BOLD ALL CAPS

#### 3.1. Section Heading

Left aligned with number, TNR 17 points, bold and leading caps

##### 3.1.1. Second level section heading

Left aligned with number, TNR 14 points, bold and sentence case.

##### 3.1.1.1 Third level section heading

Left aligned with number, TNR 12 points, bold and sentence case.

##### *Fourth-level section heading*

Numbered subsections beyond third level are not recommended. However, fourth-level subsection headings may be included without numbering, TNR 12-point font, left aligned and italicized

Running text should be set in 12-point TNR and fully justified. First line of paragraph should have indentation of 15 mm.

**Line Spacing** - The line spacing in the main text should be 1.5, for quotations, figure captions, table captions, figure legends, footnotes, equations, tables, figures, and quotations Single line spacing should be given.

#### Table / Figure/equation Format-

Tables and figures shall be numbered chapter-wise. For example, second figure in Chapter 3 will be numbered Figure 3.2. The figure can be cited in the text as Figure 3.2, Tables shall be numbered similarly (Table 2 in Chapter 3 will be numbered Table 3.2) and shall be cited in the text as Table 3.2. Figure caption shall be located below the figure. Table number and caption shall be located above the table.

## Appendices

Include data tables, drawings, background calculations, specification lists for equipment used, details of experimental configuration, and other information needed for completeness,

## Page Numbering

Page numbers for the prefacing materials (Inside title page, certificate, acknowledgements, executive summary, table of contents, etc.) of the report shall be in small Roman numerals and should be centered at the bottom of the pages.

The numbering of the prefacing material starts from the Inside Title Page. However, the number is not printed on the Inside Title Page. Each new item of the prefacing materials listed above should start on a fresh paper on right page. If the content of the prefacing material exceeds one page, it has to be printed on both sides of the paper by starting from the right-side page. For example, if the item „Table of Contents“ extends for 5 pages, it should be printed in fresh paper on right side page with second page of the „Table of Contents“ on the back of the paper and then continued. The page numbers of the prefacing material will be printed in small Roman numerals continuously counting blank pages also. However, the numbers are not printed on the blank pages.

The body of the report starting from Chapter 1 should be paginated in Arabic numerals and should be centered at the bottom of the pages. The pagination should start with the first page of Chapter 1 and should continue throughout rest of the report. Each side of a sheet of paper should be counted as a separate page, even if the back side of a sheet of paper is blank. The odd numbered pages are always on the right and even-numbered pages are always on the left. If the end of a chapter is in odd page (right side page) the next chapter should start on odd page i.e., on a fresh paper, and should be numbered as odd only by counting the blank even page also. However, the page number is not printed on the blank pages.

Each of the items - Inside cover page, Certificate, Acknowledgements, executive summary, Table of Contents, List of Figures, List of Tables, Abbreviations, Notations, Nomenclature, each new Chapter, References, and each new Appendix should start on an odd page i.e., on the right side

## Non-Paper Material

A report may contain non-paper material, such as specimen, CDs and DVDs, Pen drive if necessary. They have to be accommodated in a closed pocket in the back cover page of the report. The inclusion of non-paper materials must be indicated in the Table of Contents. All non-paper materials must have a label each clearly indicating the name of the candidate, student Register number and the date of submission.

## Binding

Two hard bounded copies of the project Report shall be submitted for evaluation, the cover page should be printed on sky blue card of 300 g/m<sup>2</sup> or above. One copy is used for Semester End Examination and after the exam it should be maintained in the concerned Head of the department and another copy is maintained at cohort owner

## Electronic Copy

An electronic version (PDF) of the project report should be submitted to the cohort owner and Head of the department. The file name should contain, student name, Register number and date of submission

\*\*\*\*\*