

POKHARA UNIVERSITY

Faculty of Management Studies

Bachelor of Business Administration (BBA)

Year 1 | Semester I

PRC 110: Software Skills Practicum

LAB REPORT

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1. INTRODUCTION

In the modern professional landscape, proficiency in computing software is no longer optional — it is a fundamental competency expected of every business graduate. PRC 110: Software Skills Practicum is a one-credit practical course offered in Year 1, Semester I of the Bachelor of Business Administration (BBA) programme at Pokhara University. The course is designed to equip students with hands-on skills in using the computer as a productivity tool, covering four essential software environments: MS Windows (for software installation and network configuration), MS Word (for document creation and formatting), MS Excel (for data analysis and computation), and MS PowerPoint (for professional presentation design).

Unlike conventional theory-based subjects, PRC 110 is evaluated entirely through continuous assessment — including attendance, class participation, assignments, and this lab report — rather than a semester-end examination. This structure reflects the course's emphasis on demonstrable, practical ability over rote memorisation.

This lab report documents all the practical tasks completed across the four course units during the semester. Each unit section presents the tasks undertaken, the skills applied, and screenshots as evidence of the work performed. The document itself has been prepared in Microsoft Word, intentionally applying the formatting techniques covered in Unit II: font styling through Word Styles, automated Table of Contents, headers and footers, figure captions, and page layout settings.

The goal of this report is to consolidate learning from the practicum, demonstrate competence in each software tool, and serve as a reference document reflecting the practical skills acquired throughout the semester.

Note to students: In your own report, replace the placeholder screenshot boxes below with actual screenshots taken during your practical sessions. Ensure every screenshot is cropped to show only the relevant portion, resized to fit within the page margins, and captioned using Insert > Caption in Word.

2. UNIT I: INSTALLING SOFTWARE IN A COMPUTER

Unit I provided an introduction to the categories of software and the practical process of installing applications on a Windows computer, including configuring basic network settings. These skills form the foundation for working efficiently in any computing environment.

2.1 Types of Software

Software is broadly classified into **system software** and **application software**. System software manages hardware resources and provides the platform on which applications run. Application software performs specific user-oriented tasks.

Category	Description	Examples
Operating System	Manages hardware and provides core services for all programs	Windows 11, macOS Ventura, Ubuntu 24.04
Utility Software	Performs maintenance tasks to keep the system running smoothly	Windows Defender, CCleaner, 7-Zip
Programming Software	Tools for writing and debugging code	Visual Studio Code, Python IDLE
Productivity Software	Applications for creating documents, spreadsheets, and presentations	MS Word, MS Excel, MS PowerPoint
Statistical Software	Performs data analysis and statistical computation	SPSS, R, Stata

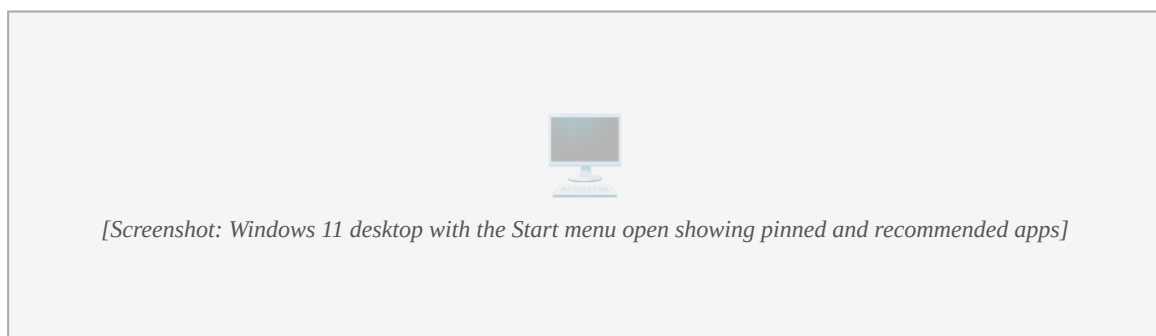


Figure: Windows 11 Start Menu showing categorised applications

2.2 Installing MS Office

During the practical session, Microsoft Office was installed on the lab computer following the steps below:

1. Downloaded the Office setup file from the Microsoft 365 portal using the institution's licensed account.
2. Double-clicked the installer (`OfficeSetup.exe`) to launch the setup wizard.
3. Accepted the End User License Agreement (EULA).
4. Chose the default installation directory (`C:\Program Files\Microsoft Office`).
5. Waited for the installation to complete (approximately 8 minutes on the lab network).
6. Activated the product by signing in with the institutional Microsoft account.

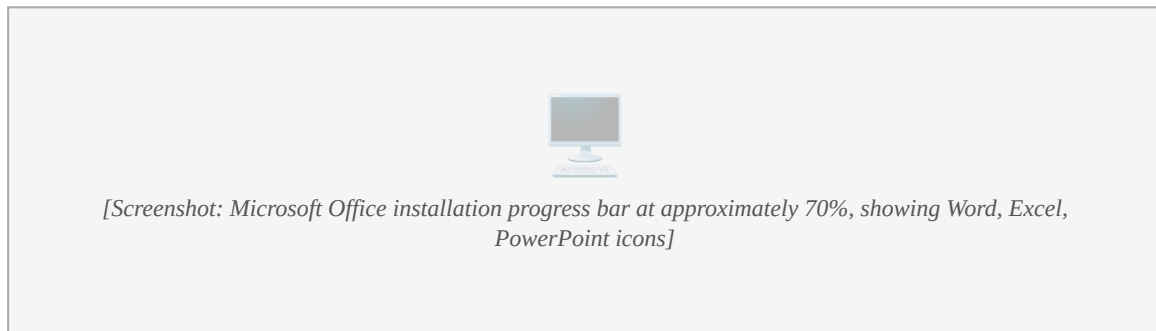


Figure: Microsoft Office installation in progress

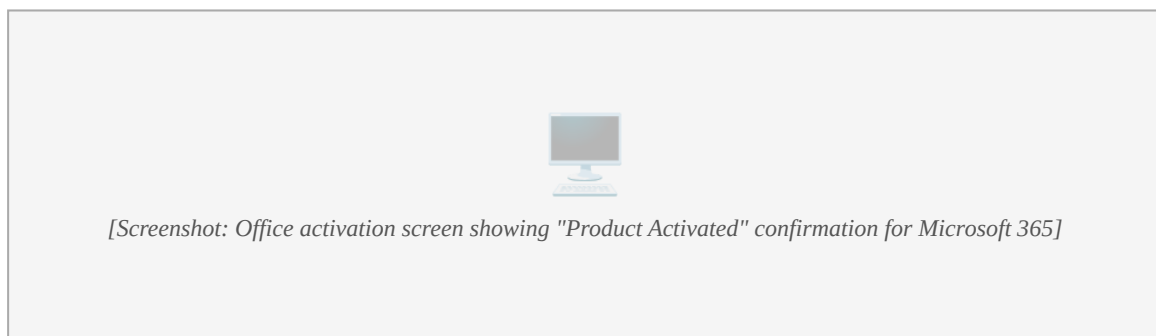


Figure: Microsoft Office successfully activated

A similar process was followed to install SPSS Statistics. The key difference was that SPSS required a separate licence key to be entered during installation, which was provided by the faculty.

2.3 Network Setup

Network configuration was performed to connect the lab computer to the institution's local area network and gain internet access. The following settings were configured:

IP Address Configuration

The IP address was set using the *Network and Sharing Centre*. The adapter was configured with a static IP address assigned by the network administrator:

- **IP Address:** 192.168.1.45
- **Subnet Mask:** 255.255.255.0
- **Default Gateway:** 192.168.1.1
- **DNS Servers:** 8.8.8.8 (Primary), 8.8.4.4 (Secondary)

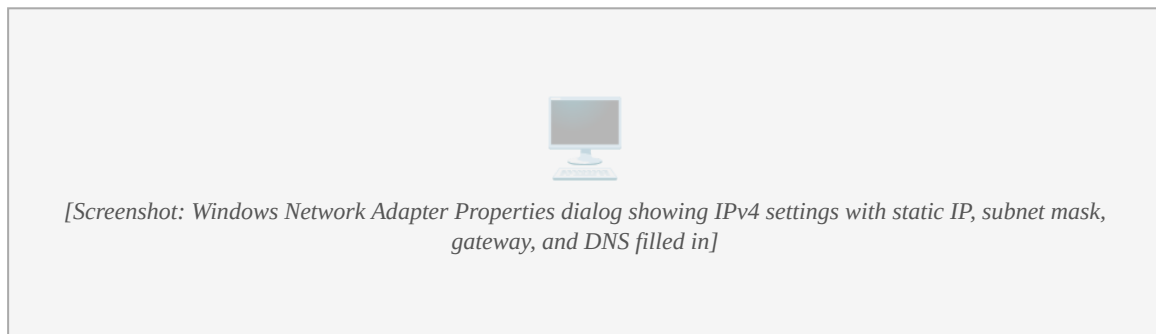


Figure: Static IP address configuration in Windows Network Settings

Firewall and Antivirus Check

Windows Defender Firewall was verified to be active through *Control Panel > System and Security > Windows Defender Firewall*. The firewall status showed the domain, private, and public network profiles all enabled. Windows Security (Antivirus) was also confirmed to be up to date with the latest virus definitions.

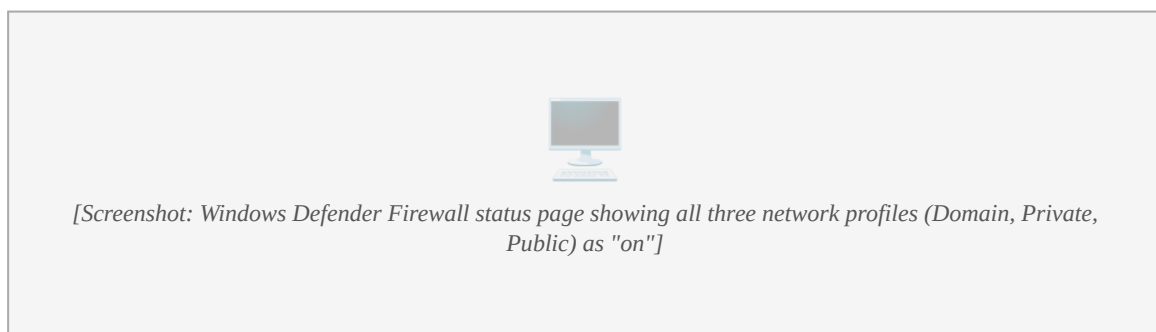


Figure: Windows Defender Firewall confirmed active for all network profiles

3. UNIT II: MS WORD

Unit II covered the core document creation and formatting capabilities of Microsoft Word 2021. The skills practised range from basic font styling to advanced automation features such as mail merge, automated Table of Contents, and tracked revisions.

3.1 Font and Paragraph Formatting

The Font group on the Home tab provides controls for typeface, size, colour, bold, italic, underline, strikethrough, superscript, subscript, and text highlight. The Paragraph group provides alignment, indentation, line spacing, and list formatting options.

In practice, a passage of unformatted text was reformatted to demonstrate the difference. The heading was styled as **Times New Roman, 14 pt, Bold**; body text as **Times New Roman, 12 pt, Justified**; and a pull-quote was formatted as *Times New Roman, 11 pt, Italic, centred*.

Best practice: Always apply formatting through Word Styles (Home > Styles) rather than manually changing font size and weight. This ensures the Table of Contents and navigation pane remain functional.



[Screenshot: Word document with the Styles gallery open on the Home ribbon, showing Heading 1 applied to a section title and Normal style applied to body text]

Figure: Applying Word Styles — Heading 1 for section titles and Normal for body text

3.2 Page Layout

Page layout settings were configured through the *Layout* tab. The following settings were applied for this report, matching the lab report formatting guidelines:

- **Paper size:** A4 (210 mm × 297 mm)
- **Top and Bottom margins:** 1.0 inch (2.54 cm)
- **Left margin:** 1.25 inches (3.18 cm)
- **Right margin:** 1.0 inch (2.54 cm)
- **Line spacing:** 1.5 lines
- **Paragraph spacing after:** 6 pt

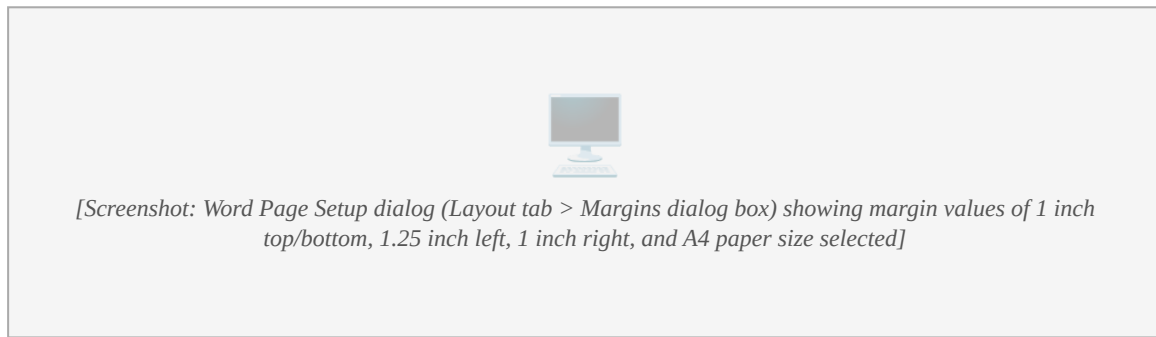


Figure: Page setup — A4 paper with 1.25 inch left margin and 1 inch other margins

3.3 Headers, Footers, and Page Numbering

Headers and footers were inserted using *Insert > Header / Footer*. The *Different First Page* option was enabled so that the cover page has no header or footer.

- **Header (left):** PRC 110: Software Skills Practicum
- **Header (right):** Rajan Sharma
- **Footer (centre):** Page X of Y (inserted via *Insert > Quick Parts > Field > Page and NumPages*)

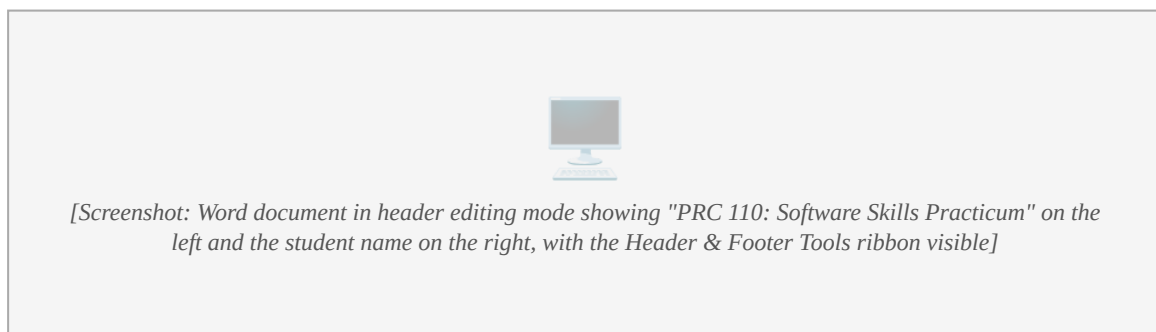


Figure: Header editing view — course name left-aligned, student name right-aligned

3.4 Tables

A table was created using *Insert > Table* to organise sample data. Table styles were applied through the *Table Design* tab. Borders were set to 0.5 pt solid black, and the header row was shaded with a dark background and white text.

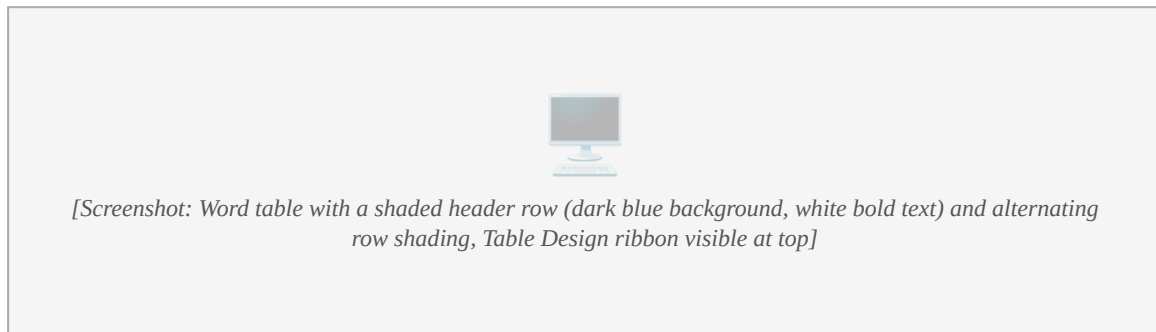


Figure: Sample formatted table — header row shading with alternating row colours applied

3.5 Automated Table of Contents and References

An automated Table of Contents was generated by navigating to *References > Table of Contents* and selecting the *Automatic Table 2* style. This populated the TOC based on the Heading 1, Heading 2, and Heading 3 styles already applied throughout the document.

Footnotes were inserted at the bottom of the relevant page using *References > Insert Footnote*. Citations were managed through *References > Manage Sources*, and the bibliography was auto-generated using *References > Bibliography > Insert Bibliography* in APA style.

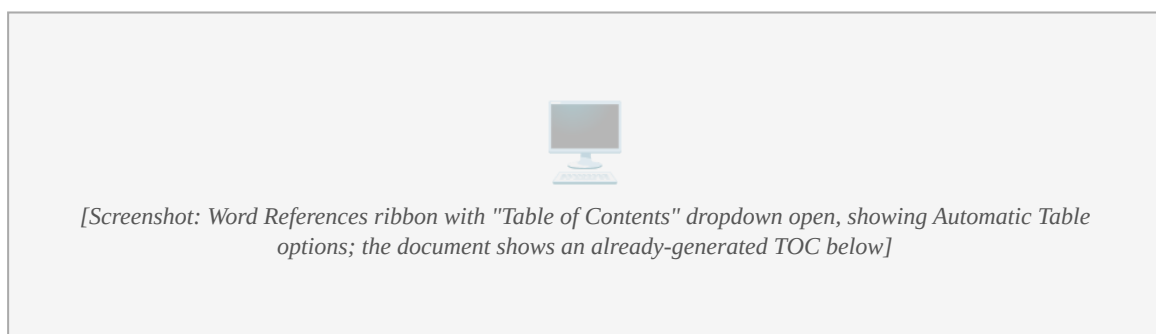


Figure: Generating an automatic Table of Contents from applied Heading styles

3.6 Mail Merge

The Mail Merge feature was demonstrated by creating a personalised letter for a set of five recipients. The process used the *Mailings* tab Step-by-Step Mail Merge Wizard:

1. Selected document type: *Letters*.
2. Used the current document as the starting document.
3. Created a new recipient list with fields: First Name, Last Name, Address, City.
4. Inserted merge fields (<<First_Name>>, <<Address>>) into the letter body.
5. Previewed the merged letters and verified each recipient's data was populated correctly.
6. Completed the merge to a new document containing all five personalised letters.



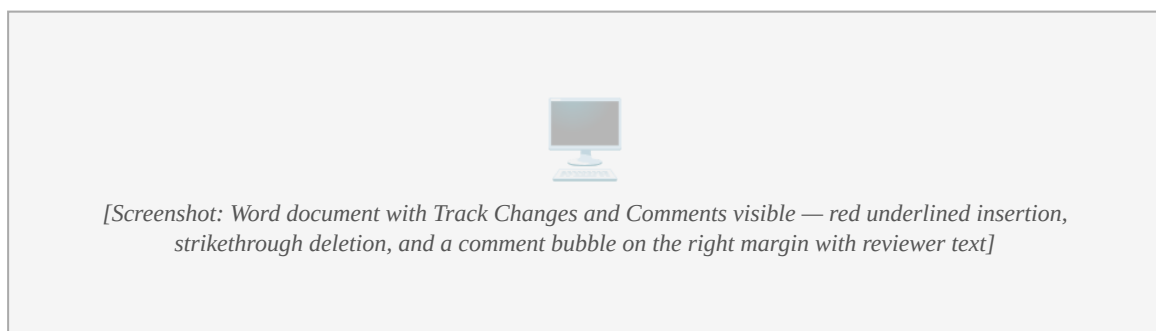
[Screenshot: Word Mailings tab showing the Step-by-Step Mail Merge Wizard pane on the right with step 4 of 6 active, and merge field placeholders visible in the document body]

Figure: Mail Merge Wizard — inserting merge fields into a letter template

3.7 Proofing, Track Changes, and Comments

Spelling and grammar checking was performed using *Review > Spelling & Grammar* (keyboard shortcut F7). Errors highlighted in red were corrected, and grammatical suggestions shown in blue were reviewed.

Track Changes was enabled using *Review > Track Changes*. Edits made while tracking was on appeared in red with underline for insertions and strikethrough for deletions. A comment was inserted using *Review > New Comment* to annotate a section for the reviewer's attention.



[Screenshot: Word document with Track Changes and Comments visible — red underlined insertion, strikethrough deletion, and a comment bubble on the right margin with reviewer text]

4. UNIT III: MS EXCEL

Unit III was the most extensive unit, covering data management, analysis, and computational skills using Microsoft Excel 2021. A sample dataset of student marks across five subjects was used as the primary data source for most exercises in this unit.

4.1 Data Entry and Formatting

A worksheet named *Student Marks* was created with the following structure: Student Name, Roll No, English, Mathematics, Science, Computer, Nepali, Total, and Percentage. Data for 10 students was entered manually.

Cell formatting was applied as follows:

- **Header row:** Bold, white text, dark blue fill, centred alignment, borders on all sides.
- **Numeric columns:** Number format with 2 decimal places.
- **Percentage column:** Percentage format (e.g., 78.40%).
- **Column widths:** Adjusted using Format > AutoFit Column Width.

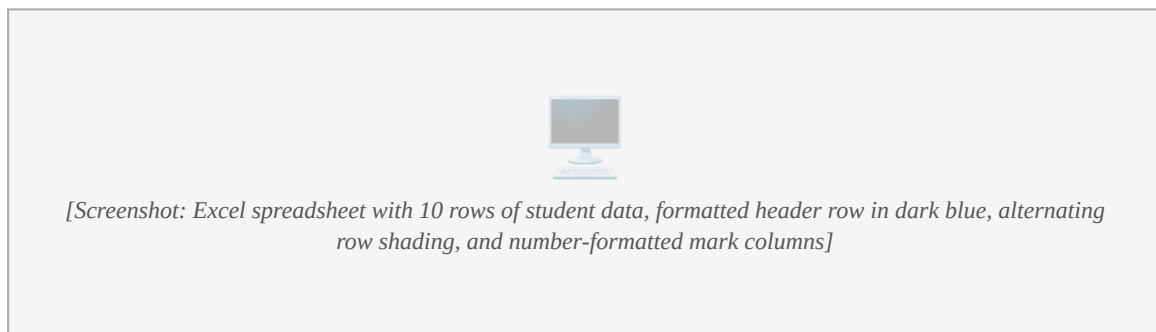


Figure: Student Marks spreadsheet — data entry with applied cell formatting

4.2 Sort, Filter, and Conditional Formatting

The dataset was sorted in descending order of *Percentage* using *Data > Sort*. A filter was then applied using *Data > Filter* to display only students who scored above 75% — the filter dropdown showed a custom number filter: "Greater Than 75".

Conditional formatting was applied to the *Percentage* column using *Home > Conditional Formatting > Colour Scales* (Green–Yellow–Red) to visually indicate performance levels at a glance.

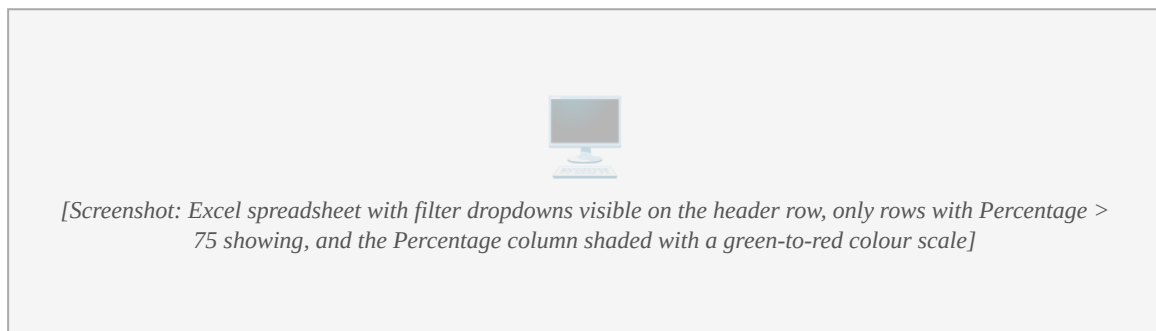


Figure: Filter applied for Percentage > 75 with conditional formatting colour scale

4.3 Cell Referencing

Three types of cell references were demonstrated in practice:

- **Relative reference** (=B2+C2): Adjusts automatically when copied to other rows.
- **Absolute reference** (=\$H\$2): Locks the reference; used for a fixed bonus value applied to all rows.
- **Mixed reference** (=B\$1*C2): Locks either the row or column; useful in multiplication tables.

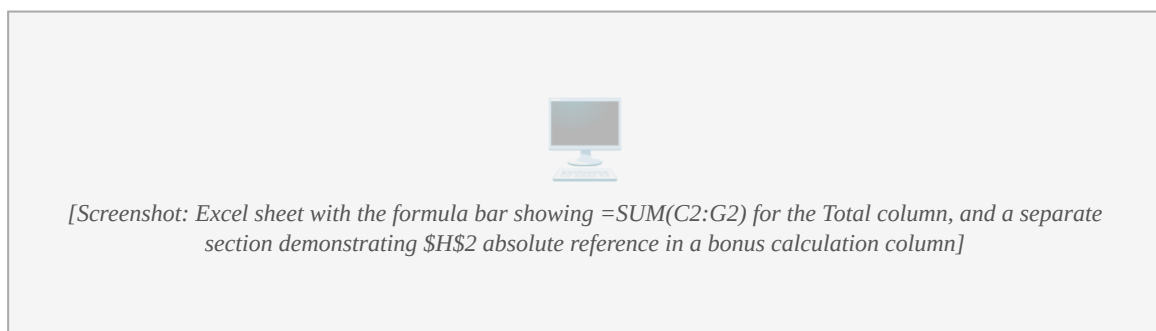


Figure: Cell referencing — relative reference for Total column, absolute reference for fixed bonus value

4.4 Functions

The following Excel functions were practised using the Student Marks dataset:

Function	Category	Formula Used	Result
SUM	Math	=SUM(C2:G2)	Total marks for each student
AVERAGE	Statistical	=AVERAGE(C2:C11)	Class average for English
MAX / MIN	Statistical	=MAX(H2:H11)	Highest and lowest total marks
COUNT / COUNTA	Statistical	=COUNTA(A2:A11)	Number of students in the list
IF	Logical	=IF(I2>=45,"Pass","Fail")	Pass/Fail based on percentage
COUNTIF	Statistical	=COUNTIF(J2:J11,"Pass")	Count of students who passed
VLOOKUP	Lookup & Reference	=VLOOKUP(A14,A2:J11,10,0)	Look up a student's grade by name
TODAY / DATE	Date & Time	=TODAY()	Current date, auto-updated

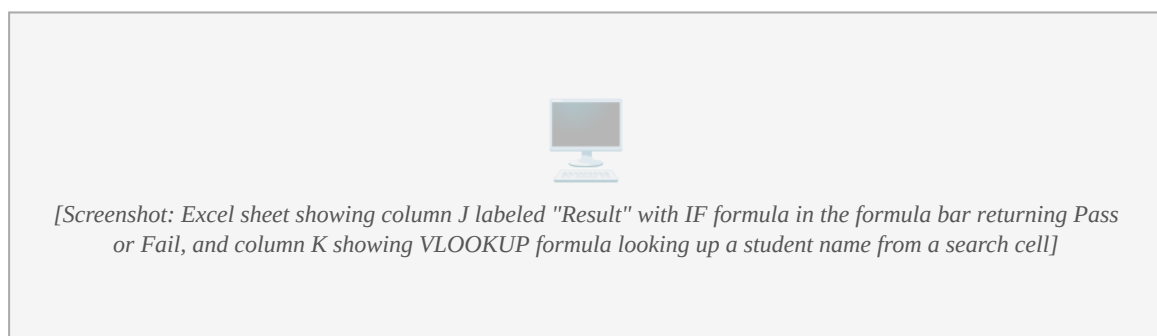


Figure: IF and VLOOKUP functions applied to the student marks dataset

4.5 Pivot Table and Chart

A Pivot Table was created from the Student Marks dataset to summarise the average marks per subject. The process:

1. Selected the data range A1:J11.
2. Navigated to *Insert > PivotTable* and placed it on a new sheet named *Summary*.
3. Dragged Subject fields (English, Mathematics, Science, Computer, Nepali) to the *Values* area, summarised as *Average*.

A clustered bar chart was then inserted from the Pivot Table to visually compare subject averages.

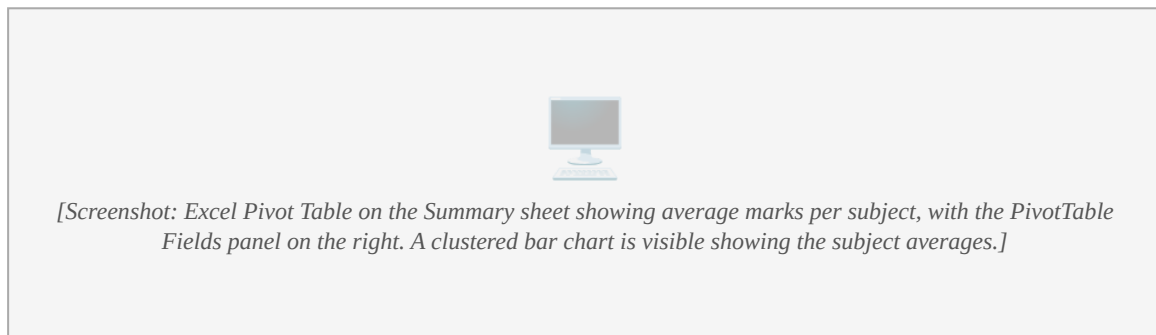


Figure: Pivot Table summarising average marks per subject, with accompanying bar chart

4.6 Linking Workbooks and Worksheets

A second worksheet named *Grade Sheet* was created within the same workbook. A cross-sheet reference was used to pull the student's Percentage from the *Student Marks* sheet: `= 'Student Marks' !I2`. This demonstrated that changes to the source sheet automatically update the Grade Sheet, maintaining data consistency across worksheets.

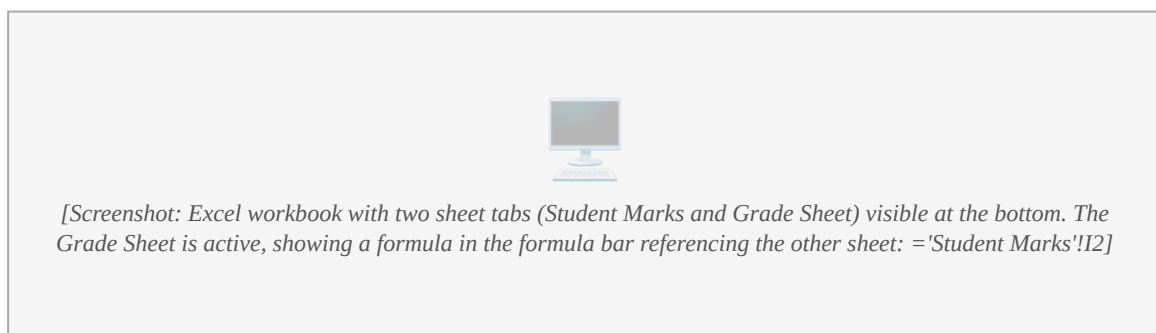


Figure: Cross-sheet reference — *Grade Sheet* pulling percentage data from *Student Marks* sheet

5. UNIT IV: MS POWERPOINT

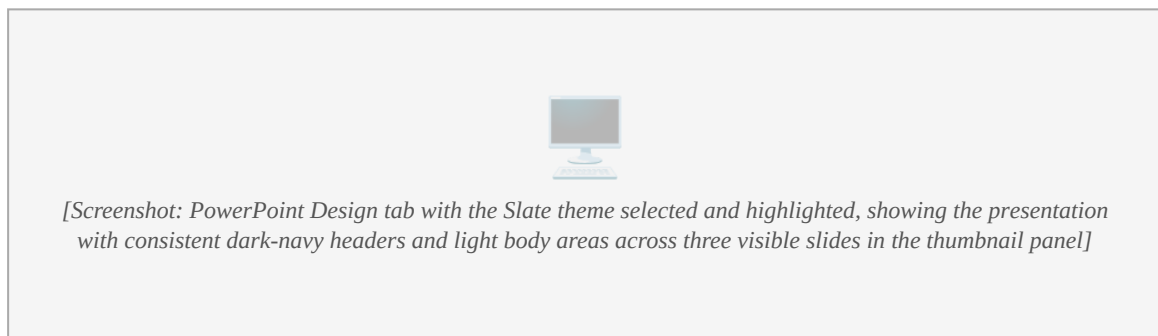
Unit IV focused on creating professional presentation slides using Microsoft PowerPoint 2021. A five-slide presentation on "The Importance of Digital Literacy in Business" was created to practise all required features.

5.1 Slide Layout and Design

The presentation used the **Title Slide** layout for the opening slide and the **Title and Content** layout for body slides. The built-in *Office Theme — Slate* design was applied from the *Design* tab, providing a consistent dark-header, light-body colour scheme.

Typography hierarchy was maintained:

- **Slide title:** Calibri 36 pt, Bold
- **Body text level 1:** Calibri 24 pt
- **Body text level 2:** Calibri 20 pt, Italic



[Screenshot: PowerPoint Design tab with the Slate theme selected and highlighted, showing the presentation with consistent dark-navy headers and light body areas across three visible slides in the thumbnail panel]

Figure: Design tab — Slate theme applied consistently across all slides

5.2 Inserting Elements

The following elements were inserted into the presentation:

- **Image:** A royalty-free image of a business meeting was inserted via *Insert > Pictures > Stock Images*, resized, and positioned.
- **Shape:** A rounded rectangle callout was added using *Insert > Shapes* with a custom fill colour to highlight a key statistic.
- **SmartArt:** A *Cycle* SmartArt graphic was inserted to illustrate the digital literacy skill cycle.
- **Chart:** A pie chart was inserted showing the proportion of time spent on different MS Office tools by business professionals.
- **Hyperlink:** A text box with a URL was converted to a hyperlink using *Insert > Link*.

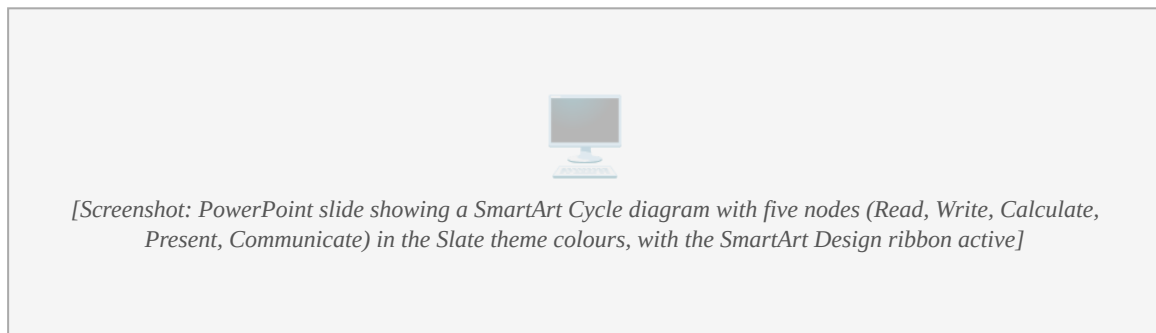
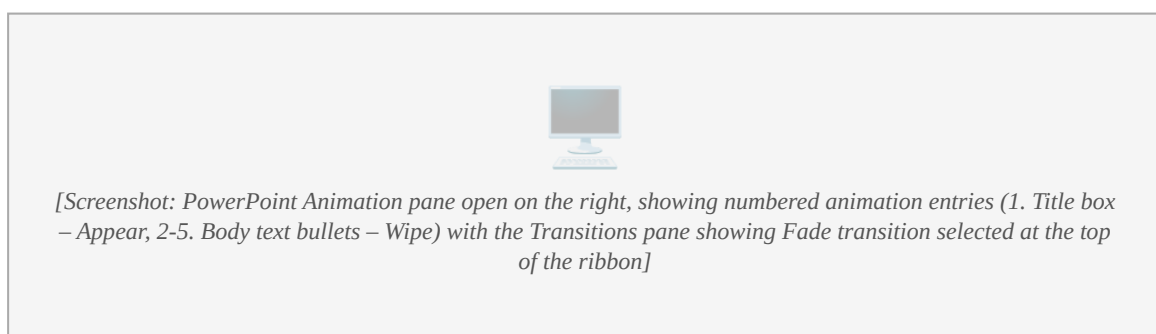


Figure: SmartArt Cycle diagram illustrating the digital literacy skill cycle

5.3 Transitions and Animations

A *Fade* transition (duration 0.70 seconds) was applied to all slides using *Transitions > Apply to All*. Object-level animations were added on slide 3:

- The title entered with an *Appear* animation (On Click).
- Each bullet point appeared with a *Wipe from Left* animation, triggered automatically after the previous item with a 0.5-second delay.



5.4 Slide Master and Slide Show Settings

The Slide Master was accessed through *View > Slide Master*. The following customisations were made to ensure brand consistency across all slides without modifying each slide individually:

- Added the college logo placeholder to the top-right corner of the Master slide.
- Set a consistent footer with the course name and slide number on all layouts.
- Modified the body text font to Calibri throughout all layouts from the Master.

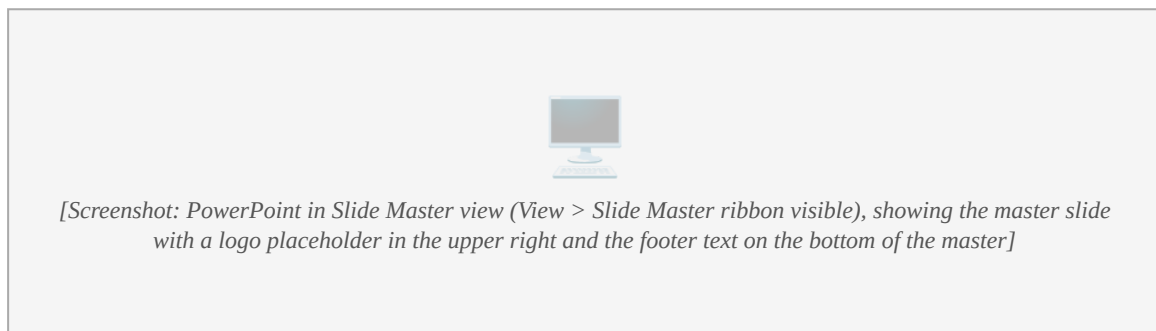


Figure: Slide Master view — logo placeholder and footer customised for all slides

The Slide Show was configured using *Slide Show > Set Up Slide Show*. The show type was set to *Presented by a speaker (full screen)*, the advance slides option was set to *Manually*, and *Use Presenter View* was enabled to display speaker notes on the presenter's screen while showing the presentation full-screen to the audience.



Figure: Set Up Show dialog — presenter mode configured with manual slide advance

6. CONCLUSION AND REFLECTION

Completing PRC 110: Software Skills Practicum has been a genuinely transformative experience. Before this course, my interaction with computers was largely passive — browsing, watching videos, and typing basic documents. After working through the four units systematically, I now approach the computer as a productivity instrument with a measurable set of skills that I can deploy purposefully.

Of the four units, I found **MS Excel** most challenging and, ultimately, most rewarding. The concept of cell referencing — particularly the distinction between relative, absolute, and mixed references — initially seemed confusing, but once I understood why the dollar sign locks a row or column, a wide range of formulas became intuitive. Functions such as VLOOKUP and IF opened my eyes to how spreadsheets can act as simple decision-support systems. I can already imagine using these tools to manage budgets, track inventory, or analyse survey data in a business context.

MS Word surprised me the most. I had always typed documents manually and formatted them visually. Learning to use Styles, automated Tables of Contents, and Mail Merge showed me how much time is wasted by students and professionals who do not know these features. The lab report itself was prepared entirely using these techniques, which gave me practical confidence that I could not have gained from reading alone.

The unit on installing software and network configuration (Unit I) gave me a vocabulary and framework for understanding the computing environment — something I had taken for granted before. And MS PowerPoint (Unit IV) reinforced that good presentation design is about restraint and hierarchy, not decoration.

The primary challenge I faced was managing my time during the Excel practical sessions, as the volume of functions to cover in six hours was significant. I addressed this by practising exercises at home using the sample datasets provided and referring to the course notes.

Looking ahead, I am confident that these skills will serve me throughout my BBA programme — in preparing project reports, analysing data for research papers, and presenting findings professionally. More fundamentally, this practicum has shifted my attitude: I now see software tools not as obstacles to navigate but as skills to master.

7. REFERENCES

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