

Seminar Course for Information Technology 3rd Year

Course title: **Seminar on Current Trends in Information Technology**

Course code: **ITec3141**

Credit hour (ECTS): **5**

Academic year: **2012/2020**

Semester: **II**

Course Objectives

- Familiarize Students with the latest and advanced topics in Information Technology and computing.
- Enhance their ability to summarize and critique papers, writings related to Information Technology.
- Introduce students with different bodies of knowledge (Technologies, Journals, Organizations, Standards, Books etc...)
- Boost their knowledge and critical thinking skills.
- Familiarize students with ways of extracting research areas.
- Enabling them to identify and survey researchable topics in IT and Computing.

Definition of Seminar

A **Seminar** is a form of academic instruction, either at an academic institution or offered by a commercial or professional organization.

It has the function of bringing together small groups for recurring meetings, focusing each time on some particular subject, in which everyone present is requested to participate.

This is often accomplished through an ongoing Socratic dialogue with a seminar leader or instructor, or through a more formal presentation of research.

It is essentially a place where assigned readings are discussed, questions can be raised and debates can be conducted.

FORMAT OF SEMINAR REPORT

1. Margins:

Top : 1” (1 inch = 2.54cm) **Bottom :** 1.15” (2.86cm) **Left :** 1.5” **Right :** 0.6”

2. Line Spacing: 1.5 line

3. Headings (Main topics)

First Order Heading: (For example – **1. INTRODUCTION**)

Font : Times New Roman (Bold Face)

Size : 16 point

➡ One blank line before the heading (12 points)

Second Order Heading: (For example – **1.1. Evolution**)

Font : Times New Roman (Bold Face)

Size : 14 point

➡ One blank line before the heading (12 points)

Third Order Heading: (for example – **1.1.1. Image Processing**)

Font : Times New Roman (Bold Face)

Size : 12 point

➡ One blank line before the heading (12 points)

4. Text

Font : Times New Roman

Size : 12 point

Line Indent : First line of every paragraph should be indented By 1 cm. (Except first paragraph *)

*** No indent should be applied to first line of first paragraph under any Heading / Sub-Heading**

Alignment : Justified (Full Text)

5. Figures and Tables : Centered placed

➡ **Figure or table caption (titles)**

Font : Garamond (**Bold**)

Size : 10 point

Alignment : Centered

➡ **Figure Caption must be below the figure and centered, Table caption must be above the table and centered.**

6. Page Numbering

Cover page: Has no page number

Tables of contents, list of figures and list of tables: Roman (i, ii, iii...) (**Centered**)

For Remaining Pages (i.e. from Introduction -to- References): 1, 2 , ...N (**Right hand side**)

7. References

Line Spacing: 1.5 Line **Font:** Times New Roman **Size:** 12 point

➡ **Publication details and/or URL must be in Italics.**

Format:

[Citation number] Author's Name, "Article Title", Journal, Publisher, Location, Year, Edition/Reprint, PP Page *No Start-End*.

[Citation number] Author's Name, "Article Title", Complete URL of Web Page.

[Citation number] Author's Name, "Title of the Book", Publication, Edition, Year of Printing.

8. Header:

Title – **Seminar report**

Position- Left hand side

Font - Times New Roman

Size - 12 point

➔ **No header and footer should be applied to cover page, tables of contents, List of figures and tables, and References.**

Footer:

Title - Your seminar title

Position - Left hand side (page no is at the right hand side)

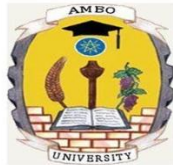
Font - Times New Roman

Size - 12 point

COVER PAGE FORMAT

A cover page of your Seminar report has to have the following format.

AMBO UNIVERSITY WOLISO CAMPUS
SCHOOL OF TECHNOLOGY AND INFORMATICS
DEPARTMENT OF INFORMATION TECHNOLOGY



A
Seminar Report
On

SEMINAR TITLE

BY
STUDENT NAME

Woliso, Ethiopia
(Month day, Year)
June 1, 2020

Individual Assignment

Dear students, Here is the list of seminar topics related to current trends in Information Technology. From the following topics you have to select **two topics** that you desire and you are expected to write seminar report having the following contents:

1. Cover page
2. Tables of contents
3. List of figures and list of tables (if any)
4. Introduction or Overview of your topic
5. How that technology was developed and who are contributors (who developed it)
6. How it works
7. Protocols used (if any)
8. Advantages or Disadvantages
9. Areas of Applications
10. Summary/Conclusion
11. References

Note: Content number 7 might not be included for all technologies, so you can add this content whenever it is required for some technologies like Wireless Sensor Network, Ad-hoc Networks, and etc.

- ➡ When you select **two topics**, it means you are going to write two separate seminar reports.
- ➡ From the two selected topics, you can select one topic and you can write your seminar report for the **first round** and after you complete it, you can write your seminar report for the second topic at the **second round**.
- ➡ Your seminar report for each topic shouldn't exceed **5** pages, except cover page, table of contents, list of figures, and list of tables.
- ➡ Attempt to write clear and concise ideas related to your topics.
- ➡ Elaborating ideas with figures, diagrams are more necessary for quality of your reports.
- ➡ References from which you have got ideas have to be cited or added at the last of your report.

IT Seminar Topics

1. 3D Password
2. 5G Mobile Technology
3. Ad hoc Networks
4. Android Programming
5. Animatronics
6. Artificial Intelligence
7. Artificial Neural Network
8. Automatic Teller Machine
9. Autopilot
10. Bicmos Technology
11. Big Data
12. Biometric Systems
13. Botnet
14. Braingate System
15. Cellular Neural Networks
16. Cloud computing
17. Cluster Computing
18. Computer Clothing
19. Computer Human Interface (CHI)
20. Cryptography
21. Cymascope
22. Data Mining
23. Deep Learning
24. Digital Forensics
25. DNA Computing in Security
26. E Learning Technology
27. E-Agriculture
28. E-Commerce
29. E-Intelligence.
30. Embedded Web Technology
31. Ergonomics
32. Evolution of SIM to eSIM
33. Facial Recognition System
34. Finger Scan Technology
35. Firewire
36. Futex
37. Global Positioning System- GPS
38. Google Driver Less Car
39. Graphic processing Unit
40. Graphical Password
41. Green Computing
42. GreenDroid
43. Grid Computing
44. GSM

45. Hadoop
46. HashCache
47. Honeypots
48. Human Computer Interface
49. Humanoid Robot
50. IDS-Intrusion Detection Systems.
51. Intelligent Networks
52. Intelligent Transportation System
53. Internet Access via Cable TV Network
54. Internet Of Things
55. Intrusion Detection Systems
56. Intrusion Detection with Snort
57. IP Spoofing
58. IPv6
59. Java Card
60. Java Ring
61. Jini Technology
62. M-Commerce
63. Middleware Technology
64. Mobile Computing
65. Mobile IP
66. Mobile Virtual Reality
67. Modular Computing
68. Money pad, the future wallet
69. Motion Capturing
70. Multitouch Technology
71. Optical Computing Technology
72. Optical Fiber Communication System
73. Optical Satellite Communication
74. Parasitic Computing
75. Pervasive Computing
76. Plagiarism Detection Of Images
77. Plastic Memory
78. Poke Yoke
79. Polymer Memory
80. Protein Memory
81. Quantum Computing
82. Quantum Cryptography
83. Raid Technology
84. Rainbow Technology
85. Reverse Engineering
86. Robots
87. Rover Technology
88. Satellite Radio
89. Semantic Web
90. Smart Cards

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|------------------------------------|--|
| 91. Smart Sensors | 106. Virtualization |
| 92. Social Engineering | 107. Virus & Anti Viruses |
| 93. Soft Computing | 108. Voice Browsers |
| 94. Software-Defined Radio | 109. VoIP - Voice over Internet Protocol |
| 95. Space Mouse | 110. VPN - Virtual Private Networks |
| 96. Speech Recognition | 111. Wearable Computers |
| 97. Survivable Networks Systems | 112. Web Mining |
| 98. Tele-Immersion | 113. Wibree Technology |
| 99. Telepresence | 114. Wi-Fi Technology |
| 100. Teleradiology | 115. WiMAX |
| 101. Terabit Switching and Routing | 116. Wireless Body Area Network |
| 102. Terrahertz Transistor | 117. Wireless Sensor Network |
| 103. Tripwire | 118. Wireless USB |
| 104. Ubiquitous Networking | 119. Zigbee Technology |
| 105. Virtual Keyboard and Typing | 120. Zoom Meeting Technology |

- ➡ After you complete seminar report writing, prepare a power point presentation of not more than 12 slides for each topic independently.
- ➡ You can read how to present seminar from the slide [Overview of seminar.pptx](#) included with in this course material folder.