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| **Categories** | **Pretest** | **Posttest** | **P Value** |
| **Performing Seminar Course to Reach the Frontiers of Knowledge** | | | |
| Moving on Boundary and Peak of Knowledge | 2.14±1.50 | 2.27±4.163 | 002.0p< |
| **Standard and Validate Methods for the Use of the Resources** | | | |
| Scientific Worth Adaptation | 3.16±5.48 | 4.23±2.153 | 002.0p< |
| To Determine the Academic Load of the Resources | 1.13±8.53 | 1.24±5.132 | 001.0p< |
| Methods for Referencing | 5.15±1.64 | 2.25±4.145 | 001.0p< |
| Way of Resource Study | 6.14±5.67 | 3.25±4.152 | 001.0p< |
| Methods of Preventing Scientific Plagiarism | 1.17±4.45 | 6.23±4.148 | 001.0p< |
| Dominate the Endnote | 2.16±6.35 | 1.26±2.157 | 001.0p< |
| **Way of Content Preparation and Lecture Presentation** | | | |
| Way of Content Summarizing and Compiling | 4.14±2.39 | 9.27±4.146 | 001.0p< |
| Content Critique and Analysis | 6.16±5.43 | 8.23±1.151 | 001.0p< |
| Content Interpretation and Content Concluding | 7.14±4.45 | 5.26±6.153 | 001.0p< |
| mastery of Microsoft Office software | 2.16±9.76 | 9.23±1.151 | 002.0p< |
| **Verbal Skills in Seminar Presentation** | | | |
| ability to manage scientific conflict | 7.15±4.41 | 6.25±2.148 | 001.0p< |
| critical thinking | 8.14±3.60 | 4.24±6.157 | 001.0p< |
| Persuasion Method | 5.15±7.43 | 9.27±3.153 | 001.0p< |
| Effect of Seminar Presentation on Strengthen Self-confidence | 7.13±6.56 | 1.24±8.164 | 001.0p< |
| Effect of Seminar Presentation on Understanding the Scientific Principles and Rhetoric | 2.16±3.63 | 8.26±4.161 | 002.0p< |
| Strengthen Self-confidence Power | 5.17±6.55 | 9.23±7.153 | 001.0p< |
| Manners of Speech and Scientific Interaction | 1.14±4.49 | 3.24±5.146 | 001.0p< |
| Effect of Seminar Presentation on Scientific Assimilation of the students | 2.15±5.56 | 8.27±3.147 | 001.0p< |
| **Research Skills** | | | |
| Increase in the Cognitive Ability and Discovering the Unknowns | 8.14±3.35 | 7.26±3.132 | 001.0p< |
| Preparation to Compile a Proposal | 9.17±5.43 | 4.25±7.143 | 001.0p< |
| Forming the Commercialization Thinking | 5.15±4.35 | 4.28±8.151 | 001.0p< |
| Way of Scientific Writing | 2.15±7.51 | 2.25±6.145 | 002.0p< |