

JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

| DOCUMENT | : | PROCEDURE FOR MANAGEMENT OF SCIENCE | | | |
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| | | LABORATORIES | | | |
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JOOUST Procedure for Management of Science Laboratories P a g e

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1.0 Purpose: To ensures efficient operation of practical lessons in the science laboratory

2.0 Scope: This procedure covers the management of science laboratories within JOOUST.

3.0 References:

i. ISO 9001:2015 Standard

ii. JOOUST Curriculum

iii. JOOUST Service Charter

iv. JOOUST Statutes

v. Laboratory Manuals

vi. Students rules and regulations

vii. Terms and conditions of service

4.0 Abbreviations /Acronyms and Definition of terms

i. **DVC(AA)**: Deputy Vice chancellor, Academic Affairs

ii. **JOOUST:** Jaramogi Oginga Odinga University of Science and

Technology

iii. QMR: Quality Management Representative

iv. **R**(**AA**): Registrar Academic Affairs

v. **SBPS:** School of Biological & Physical Sciences

5.0 Responsibility:

Dean, SBPS shall be responsible for the implementation of this procedure.

6.0 Method

6.1 Procedures for Practical Sessions

- 6.1.1 The laboratory technicians in collaboration with the course lecturer shall identify the practicals for the course unit two weeks before the beginning of the semester.
- 6.1.2 The laboratory technician shall avail the specimens, solutions and equipments relevant for the Practical two hours before the practical session.
- 6.1.3 The laboratory technician shall ensure that all equipments and machines are in good condition and ready for use before the practicals begin.
- 6.1.4 The laboratory technician shall set up the laboratory one hour before, and in collaboration with the course lecturer, they shall determine group size.

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- 6.1.5 The laboratory technician shall allow students in the laboratory in conformity with laboratory rules and regulations.
- 6.1.6 The technician shall send back the students that do not conform to the laboratory rules and regulations.
- 6.1.7 The course lecturer and technician shall take the students through the laboratory manual in every session.
- 6.1.8 The lecturer and technician shall guide the students through the procedures of practical.
- 6.1.9 The technician shall collect laboratory data from the students as the students sign the attendance list.
- 6.1.10 The students shall hand in laboratory reports, 1 week after the practical.
- 6.1.11 The course lecturer and technician shall asses the laboratory reports.
- 6.1.12 The feedback concerning the report shall be given back to the students by the course lecturer or technician, 2 weeks after receiving the report.

6.2.0 Care and Safety in the Laboratory

- 6.2.1 The chief technician in collaboration with the technicians shall develop a laboratory safety guide which shall be hanged on the laboratory main entrance one week before the beginning of the semester.
- 6.2.2 The technicians shall in their laboratory session first take the students through the safety procedures.
- 6.2.3 The technician shall provide all the students with a copy of the safety manual at the beginning of every academic year.
- 6.2.4. The students shall acknowledge, by signing an attendance list, that they have gone through and fully understood the laboratory safety guide.
- 6.2.5 The technician shall regularly inspect and ensure that all the safety procedures are followed during practical sessions.
- 6.2.6 The technician shall label all warnings onto equipments and guide the students on their usage as safety measure.
- 6.2.7 The technicians shall always put and check warning labels of chemicals and equipments with right dangers within laboratory set up.

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- 6.2.8 The technicians shall install fire extinguisher within the laboratories and make sure other forms of fire extinguisher are available
- 6.2.9 The technician in collaboration with the chief technician shall install and maintain first aid kit within the laboratory for any laboratory accidents.

6.3.0. Calibration of Laboratory Equipment

- 6.3.1 The chief technicians shall identify the equipment to be calibrated one month before the beginning of the semester and prepare calibration schedule in collaboration with external bodies e.g KEBS.
- 6.3.2 The chief technician in collaboration with other technicians shall ensure that all laboratory equipments are calibrated on or before use as per schedule.
- 6.3.3 The technician shall always run trials to ensure that the equipments once calibrated are giving right results.
- 6.3.4 The technician in collaboration with the chief technician shall write a label and hang on every equipment indicating dates of calibration and next calibration.
- 6.3.5 The technicians shall in their daily routine check and report to the chief technician due dates of calibrations for action.

6.4. Care and Maintenance of Laboratory Equipments

- 6.4.1 The technicians shall ensure that equipments are cleaned before and after use, before keeping them in places designed for them.
- 6.4.2 The technicians shall do routine check on the functionality of the equipments after every session and report to the chief technician for maintenance arrangements.
- 6.4.3 The chief technician shall prepare maintenance schedule and invite the manufacturers/dealers for repair of the equipments whose dates are due.
- 6.4.4 The technicians shall remove or write warnings on those equipments that are yet to be repaired not to be used before repair is done.
- 6.4.5 The chief technician in collaboration with the technicians shall through procurement office send and receive equipment specification, chemicals and glassware before the beginning of the semester.
- 6.4.6 The chief technician shall order the equipments, chemicals, glassware and consumables one month before the beginning of the semester.

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