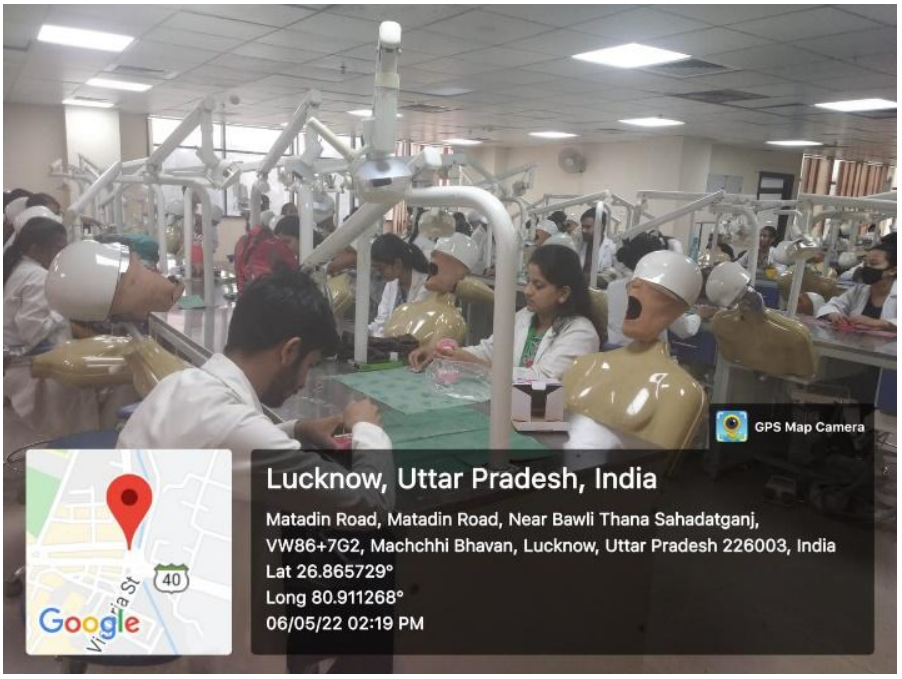
# Student Centric methods for enhancing learning

1. **Experiential Learning**

- 


- Pre-clinical work for hands-on experience.

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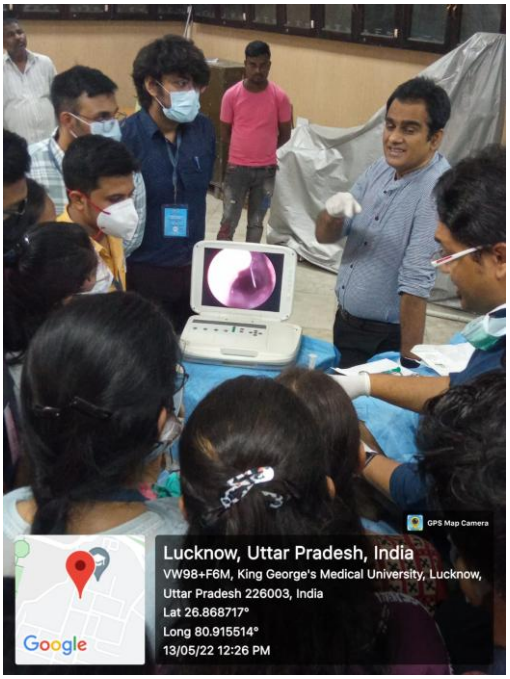
## 2. Integrated / Interdisciplinary learning.



- 35 Interdisciplinary courses extend between different programs of the University.

- ✓ Tumor boards (weekly)- with Surgical Oncology,
- ✓ Radiation Oncology, Medical Oncology, Pathology and other specialties.
- ✓ Endocrine- Pathology sessions
- ✓ Endocrine- Radiology discussions
- ✓ Integrated teaching in Pre/Para/Clinical Departments

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### 3. Participatory Learning

- Students get opportunity to participate in debates, seminars, and various other university level activities. Activities like group discussions, role-plays, and seminars.

-Students participating in Debate competition.

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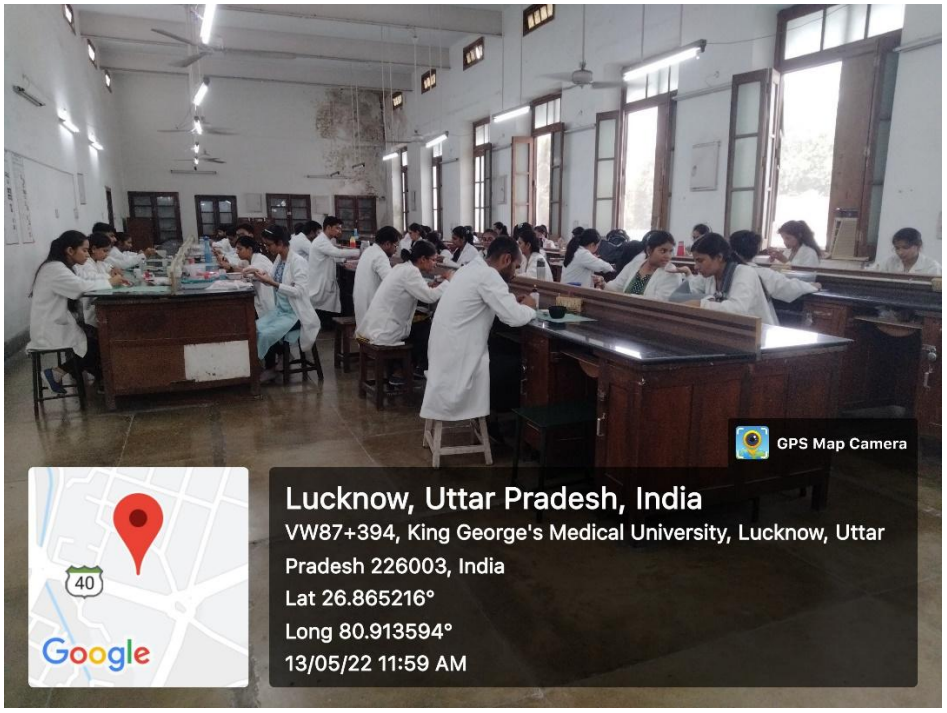
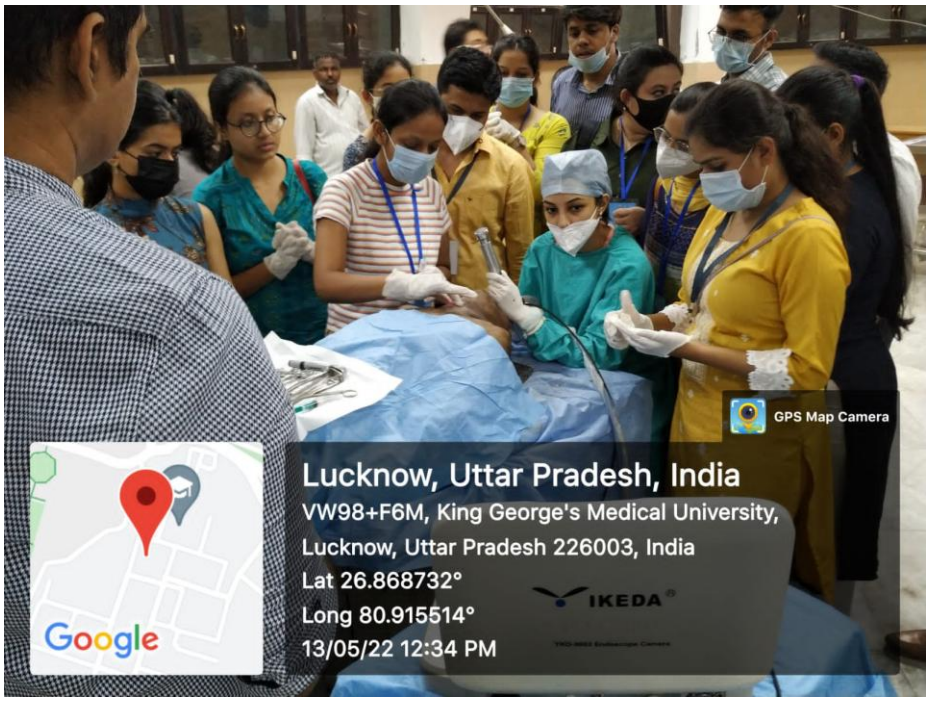
## 4. Problem-Solving methodologies




-Clinical case presentations and bedside teachings.

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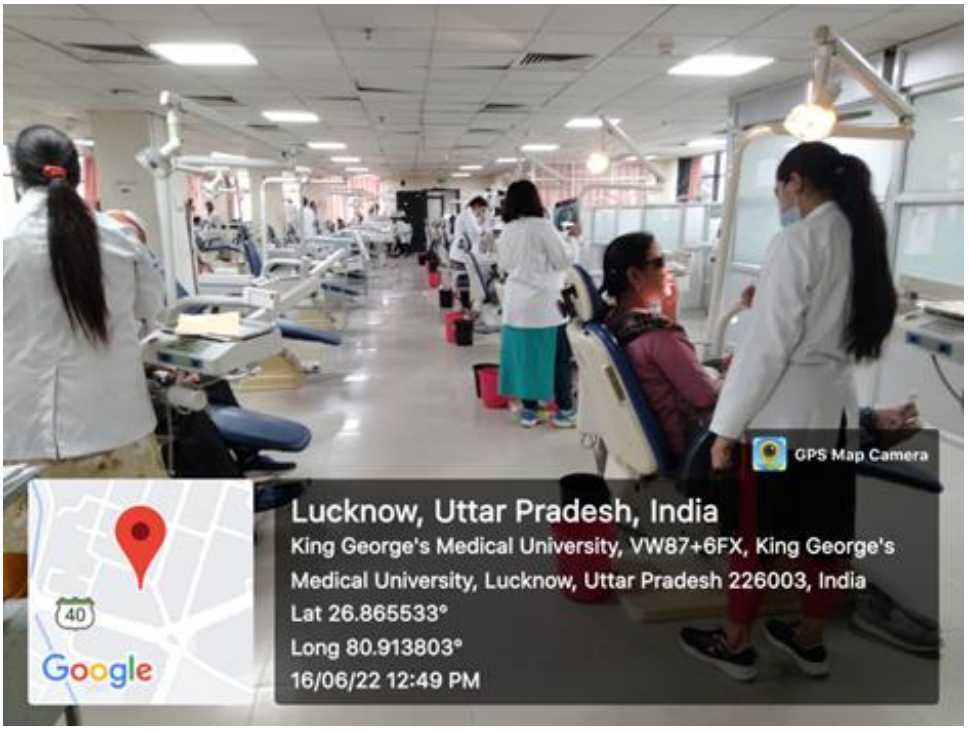
## 5. Self-Directed Learning

Utilization of online and offline resources (e.g., KGMU library).

## 6. Patient centric training and evidence- based learning




- Exposure to OPD, inpatient wards, and specialty clinics.

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## 7. Humanities

Participation in literary activities, ethical debates, and social outreach programs allows students to cultivate empathy, communication skills, and a deeper understanding of the societal context of medicine.

Student taking history and understanding empathy and communication skills.

Students attending soft skills workshop.

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## 8. Project-Based Learning

MBBS students showcasing their projects.

## 9. Role play

Role-play scenarios for ethical and compassionate care

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## Audio Visual Aid

**Program and Batch Year:** Cadaveric Skilled Lab Telecast in Dissection Hall, MBBS 2023

- **Short Description:** Faculty demonstrate soft parts in the cadaveric skilled lab, which is telecasted to the dissection hall equipped with 8 LED screens. This setup allows 250 students, divided into 8 groups, to simultaneously view the demonstration.
- **Subject:** Anatomy

| Name of Room | Name of the AV aid installed (Number) |
|---|---|
| AV ROOM | SONY XGA PROJECTOR, MAONO MICROPHONE, ZEBRONICS WIRELESS MICROPHONE. |

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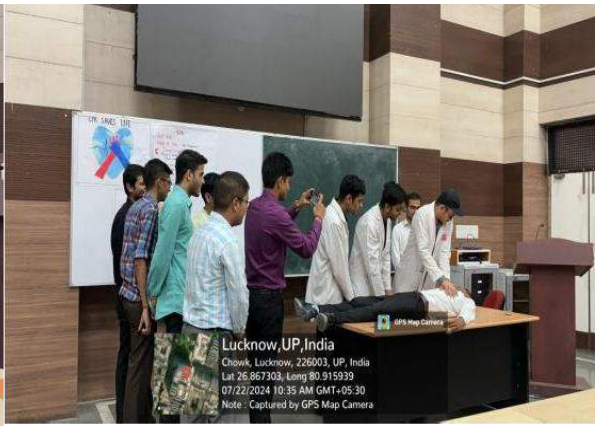
## AETCOM-Role Play

**Program and Batch Year:** MBBS 2023

- **Short Description:** Students were divided into groups of 32 and assigned AETCOM topics to enact. This method ensured full participation and helped students learn to handle real-life scenarios faced by doctors daily.
- **Subject:** Biochemistry




## SVL Activity

**Program and Batch Year:** MBBS 2023

- **Short Description:** Techniques like ELISA, RT-PCR, and RIA were presented using animated videos. Post-session assessments were conducted via MCQs.
- **Subject:** Biochemistry
-

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## Poster Presentation

**Program and Batch Year:** MBBS 2023

- **Short Description:** Students, in groups of 5, were assigned curriculum topics to depict through posters and present their understanding. Evaluation was based on predefined criteria, improving both knowledge and communication skills.
- **Subject:** Biochemistry

## Research Activity

**Program and Batch Year:** MBBS 2023

- **Short Description:** Students were introduced to research concepts, study types, plagiarism, and writing papers. Formative assessments were conducted using MCQs.
- **Subject:** Biochemistry

## IO Access

**Program and Batch Year:** UG 2023

- **Short Description:** Basic clinical skill training models were introduced for hands-on practice.
- **Subject:** Emergency Medicine

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## Simulation-Based Learning

**Program and Batch Year:** Simulation-Based Learning

- **Short Description:** Advanced patient simulators were used for clinical skill training.
- **Subject:** Emergency Medicine

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## Bedside POCUS

**Program and Batch Year:** Bedside POCUS

- **Short Description:** Structured programs for training and assessment of students in point-of-care ultrasound techniques.
- **Subject:** Emergency Medicine

## Age Estimation

**Program and Batch Year:** Clinical Skill Lab Age Estimation Clinic - Anthropology Lab

- **Short Description:** Students were trained in clinical skills related to age estimation in a specialized lab setup.
- **Subject:** Forensic Medicine

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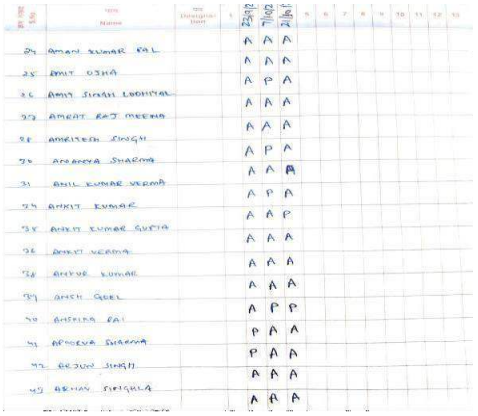
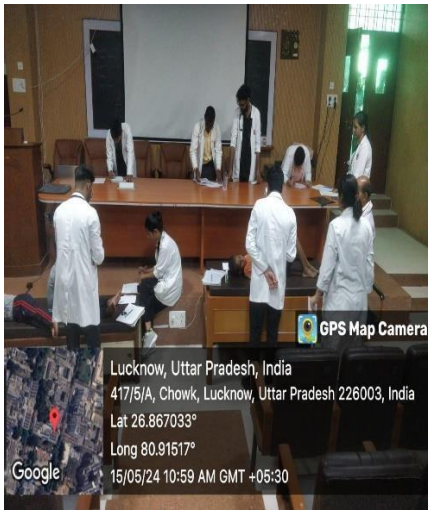
REMEDIAL CLASS Attendance for the

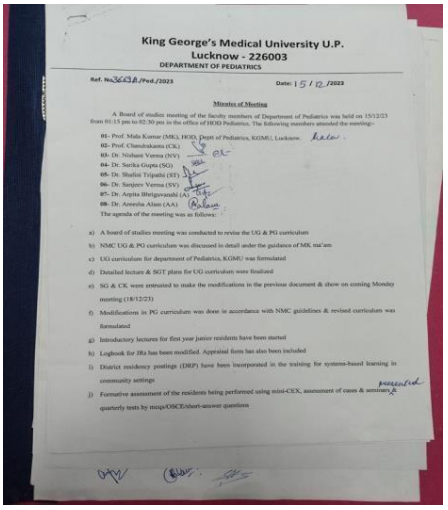


## OSCE Method

**Program and Batch Year:** OSCE Teaching and Evaluation 2023

- **Short Description:** Objective Structured Clinical Examination (OSCE) was introduced as a teaching and evaluation method.
- **Subject:** Pediatrics

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DEPARTMENT OF PEDIATRICS

Minutes of Meeting

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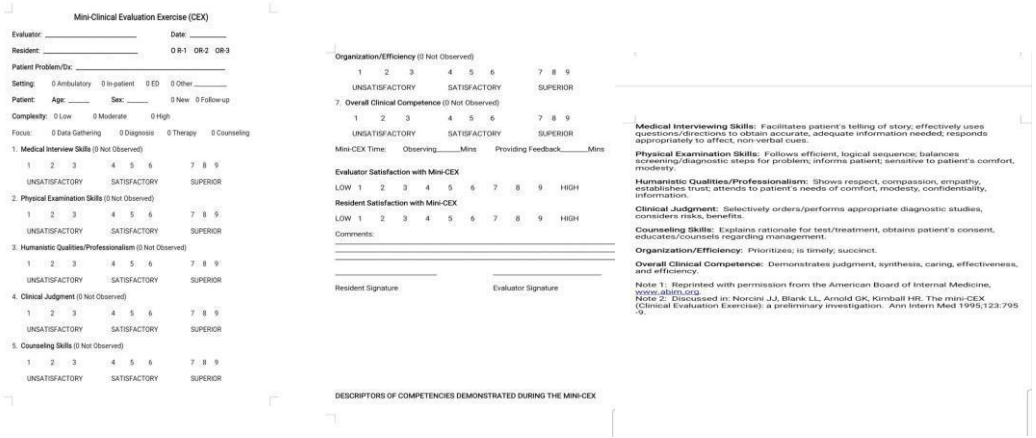
## Mini CEX

**Program and Batch Year:** PG Students, Obstetrics & Gynaecology

- **Short Description:** Mini Clinical Evaluation Exercises (Mini CEX) were conducted as per protocol. Students underwent four encounters in various settings, followed by feedback sessions to discuss strengths, weaknesses, and improvement plans.
- **Subject:** Pediatrics



Mini-Clinical Evaluation Exercise (CEX)

Evaluator: _____ Date: _____

Resident: _____ O R-1 OR-2 OR-3

Patient Problem/Dx: _____

Setting: 0 Ambulatory 0 In-patient 0 ED 0 Other _____

Patient: Age: _____ Sex: _____ 0 New 0 Follow-up

Complexity: 0 Low 0 Moderate 0 High

Focus: 0 Data Gathering 0 Diagnosis 0 Therapy 0 Counseling

1. Medical Interview Skills (0 Not Observed)
1 2 3 4 5 6 7 8 9
UNSATISFACTORY SATISFACTORY SUPERIOR

2. Physical Examination Skills (0 Not Observed)
1 2 3 4 5 6 7 8 9
UNSATISFACTORY SATISFACTORY SUPERIOR

3. Humanistic Qualities/Professionalism (0 Not Observed)
1 2 3 4 5 6 7 8 9
UNSATISFACTORY SATISFACTORY SUPERIOR

4. Clinical Judgment (0 Not Observed)
1 2 3 4 5 6 7 8 9
UNSATISFACTORY SATISFACTORY SUPERIOR

5. Counseling Skills (0 Not Observed)
1 2 3 4 5 6 7 8 9
UNSATISFACTORY SATISFACTORY SUPERIOR

Organization/Efficiency (0 Not Observed)
1 2 3 4 5 6 7 8 9
UNSATISFACTORY SATISFACTORY SUPERIOR

7. Overall Clinical Competence (0 Not Observed)
1 2 3 4 5 6 7 8 9
UNSATISFACTORY SATISFACTORY SUPERIOR

Mini-CEX Time: Observing_____Mins Providing Feedback_____Mins

Evaluator Satisfaction with Mini-CEX
LOW 1 2 3 4 5 6 7 8 9 HIGH

Resident Satisfaction with Mini-CEX
LOW 1 2 3 4 5 6 7 8 9 HIGH

Comments:

Resident Signature Evaluator Signature

DESCRIPTORS OF COMPETENCIES DEMONSTRATED DURING THE MINI-CEX

**Medical Interviewing Skills:** Facilitates patient's telling of story; effectively uses questions/directions to obtain accurate, adequate information needed; responds appropriately to affect, non-verbal cues.

**Physical Examination Skills:** Follows efficient, logical sequence; balances screening/diagnostic steps for problem; informs patient; sensitive to patient's comfort, modesty.

**Humanistic Qualities/Professionalism:** Shows respect, compassion, empathy, establishes trust; attends to patient's needs of comfort, modesty, confidentiality, information.

**Clinical Judgment:** Selectively orders/performs appropriate diagnostic studies, considers risks, benefits.

**Counseling Skills:** Explains rationale for test/treatment, obtains patient's consent, educates/counsels regarding management.

**Organization/Efficiency:** Prioritizes; is timely; succinct.

**Overall Clinical Competence:** Demonstrates judgment, synthesis, caring, effectiveness, and efficiency.

Note 1: Reprinted with permission from the American Board of Internal Medicine, www.abim.org.
Note 2: Discussed in: Norcini JJ, Blank LL, Arnold GK, Kimball HR. The mini-CEX (Clinical Evaluation Exercise): a preliminary investigation. Ann Intern Med 1995;123:795-9.

## Surgical Skill Lab

**Program and Batch Year:** 2022

- **Short Description:** Skills like corneal suturing and tunnel making were taught.
- **Subject:** Ophthalmology

## Workshops & Seminars

**Program and Batch Year:** MS 2023 & 2024

- **Short Description:** Small group teaching methods were used for interactive learning.
- **Subject:** Orthopedics

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## Mock Tests

**Program and Batch Year:** MS 2023 & 2024

- **Short Description:** Formative assessments were conducted every six months to evaluate progress.
- **Subject:** Orthopedics

## Slide Discussions

**Program and Batch Year:** 2022

- **Short Description:** Pathology slide discussions were held for PG students to enhance diagnostic skills.
- **Subject:** Pathology

## Digital Dentistry Course

**Program and Batch Year:** BDS 2020 and BDS 2021

- **Short Description:** A 16-hour course introduced third and final-year BDS students to digital dentistry, incorporating offline sessions and self-directed online learning materials. Assessments and feedback were collected post-course.



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- **Subject:** Prosthodontics, Crown, and Bridge

## Student-Centric Methods for Enhancing Learning

## Additional Enhancements

1. **Conferences and Seminars:** Participation in multidisciplinary forums.
2. **Case Discussions:** Weekly problem-oriented discussions to enhance diagnostic and decision-making skills.
3. **Skill Training:** Micro suturing, cadaveric dissections, and hands-on workshops.
4. **Research and Presentation:** Journal clubs, thesis progression, and paper presentations.
5. **Laboratory Work:** Instrumentation, specimen collection, and ancillary procedures.

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