

Academic Plan & Scientific Activities Guide (2025 - 2026)

Planning and Information Technology Division / Scientific Unit

Summary of Academic Activities Distribution by Department (2025 - 2026)

Academic Department	Seminars	Symposia	Scientific Sessions	Workshops	Total
Radiology Techniques	11	5	11	11	38
Anesthesia Techniques	4	6	2	5	17
Nursing Techniques	5	4	3	4	16
Pharmacy Techniques	1	2	1	1	5
Community Health Techniques	5	1	4	1	11
Emergency Medical & First Aid Tech.	1	7	1	9	18
Optometry Techniques	2	3	1	2	8
Grand Total	29	28	23	33	113

Academic Seminars for Faculty (29 Activities)

#	Academic Department	Activity Title / Subject	Date
1	Community Health Techniques	Emerging Environmental Challenges and Their Impact on Community Mental Health	2025-10-12
2	Community Health Techniques	Qualitative Changes in Drinking Water Standards	2025-10-13
3	Community Health Techniques	Medical Applications of Inorganic Elements and Their Public Health Impact	2025-10-14
4	Community Health Techniques	Medical Mycology: Public Health Impact and Preventive Strategies	2025-10-15

#	Academic Department	Activity Title / Subject	Date
5	Community Health Techniques	Electronic Questionnaire Methodology in Academic Research	2025-10-19
6	Optometry Techniques	Rational Use of Pharmaceuticals and Misuse Prevention	2026-04-22
7	Optometry Techniques	Etiology and Clinical Manifestations of Retinal Detachment	2026-03-03
8	Pharmacy Techniques	Stem Cell Physiology and Therapeutic Potentials	2025-10-12
9	Nursing Techniques	Diabetes Mellitus: Pathophysiology of Type 1 and Type 2	2025-12-09
10	Nursing Techniques	The Effect of Modern Technology on Social Relations	2025-12-15
11	Nursing Techniques	Registration and Utilization Guidelines for Microsoft Office 365	2026-02-05
12	Nursing Techniques	Bacterial Resistance and Bio-Resistance: The Survival Struggle	2026-02-08
13	Nursing Techniques	Metabolic Pathways of Proteins, Lipids, and Carbohydrates	2026-03-26
14	Anesthesia Techniques	Comparative Analysis of Conventional and Modern Parasitological Diagnostics	2025-12-22
15	Anesthesia Techniques	Brucellosis (Malta Fever): Diagnostic Protocols and Prevention	2025-12-02
16	Emergency Medical & First Aid Tech.	Good Health and Well-being: Effective Policies for Promoting Quality of Life	2025-08-10
17	Radiology Techniques	Promising Health Centers: Development and Initiatives	2025-02-11
18	Radiology Techniques	Mechanisms of Bacterial Antibiotic Resistance	2026-01-13
19	Radiology Techniques	Natural and Artificial Sources of Ionizing Radiation	2026-10-06
20	Radiology Techniques	Applications of Cold Atmospheric Plasma in Medicine	2025-09-12

#	Academic Department	Activity Title / Subject	Date
21	Radiology Techniques	Cardiac Catheterization Instrumentation: Diagnostic and Interventional Roles	2025-11-23
22	Radiology Techniques	Yeasts and Microorganisms in Daily Life Applications	2026-02-16
23	Radiology Techniques	The Role of Radiologic Technologists in Modern Healthcare	2025-12-16
24	Radiology Techniques	The Canadian Water Quality Index Model	2025-01-12
25	Radiology Techniques	From Micro to Nano: Frontiers in Modern Science	2026-01-20
26	Radiology Techniques	Use of Mutagens to Enhance Active Compounds Yield	2025-04-12
27	Radiology Techniques	Scientific Peer Review: Past Evolution and Present Standards	2025-12-18
28	Anesthesia Techniques	Advanced Parasitology Diagnostic Techniques	2025-12-22
29	Anesthesia Techniques	Brucellosis Infection Control Protocols	2025-12-02

Scientific Symposia (28 Activities)

#	Academic Department	Activity Title / Subject	Date
1	Emergency Medical & First Aid Tech.	Mitigating Misinformation on Social Media Platforms	2025-10-29
2	Emergency Medical & First Aid Tech.	Accent Awareness: Sounding British or American English	2025-12-15
3	Emergency Medical & First Aid Tech.	Cataract: Etiology, Diagnosis, and Surgical Management	2025-12-21
4	Emergency Medical & First Aid Tech.	Pandemic Influenza Between Humans and Animals: Prevention and Control	2026-01-25
5	Emergency Medical & First Aid Tech.	Using Technology and AI Tools to Enhance English Language Learning	2026-02-26

#	Academic Department	Activity Title / Subject	Date
6	Emergency Medical & First Aid Tech.	The Role and Clinical Importance of Probiotics in Human Health	2026-08-03
7	Emergency Medical & First Aid Tech.	Antimicrobial Photodynamic Therapy	2026-03-26
8	Anesthesia Techniques	Therapeutic Nutrition for Companion Animals	2025-02-11
9	Anesthesia Techniques	The One Health Approach: Human, Animal, and Environmental Interconnection	2025-06-10
10	Anesthesia Techniques	Risks of Drug Residues and Hormones in Animal Products on Consumer Health	2025-05-11
11	Anesthesia Techniques	Major Bacterial Pathogens Infecting the Urinary System	2026-10-02
12	Anesthesia Techniques	Modern Technologies in Diagnosis and Treatment of Microbiological Diseases	2026-12-04
13	Anesthesia Techniques	Strategic Planning and Objective Management	2026-03-05
14	Nursing Techniques	Clinical Significance and Management of Hypotension	2025-12-21
15	Nursing Techniques	Challenges of Learning English in Non-English-Speaking Environments	2026-03-02
16	Nursing Techniques	Education as the Foundation for Health Awareness and Disease Prevention	2026-07-02
17	Nursing Techniques	Balanced Nutrition and its Role in Health Promotion	2026-04-27
18	Optometry Techniques	Ocular Prostheses and Synthetic Implants	2026-01-06
19	Optometry Techniques	The Ocular Microbiome: Commensal Flora and Their Protective Role in Health	2026-02-25
20	Optometry Techniques	Ocular Infections in Infants and Neonates	2026-08-01
21	Community Health Techniques	Artificial Intelligence Applications for a Healthier Environment	2025-10-19

#	Academic Department	Activity Title / Subject	Date
22	Pharmacy Techniques	Clinical Uses of Opioid Plants in Analgesia and Pain Management	2025-11-11
23	Radiology Techniques	Awareness Symposium on the Phenomena of Suicide and Mental Health Support	2025-11-17
24	Radiology Techniques	Health Risks and Pathological Impact of E-Cigarettes and Vaping	2026-07-01
25	Radiology Techniques	Radiation Therapy Principles and Clinical Modalities	2026-08-04
26	Radiology Techniques	Substance Abuse Awareness and Prevention Strategies	2026-07-05
27	Radiology Techniques	Methodology and Best Practices in Scientific Research Writing	2026-05-17
28	Pharmacy Techniques	Opioid Therapeutics in Analgesia	2025-11-11

Scientific Presentation Sessions (23 Activities)

#	Academic Department	Activity Title / Subject	Date
1	Nursing Techniques	Optimal Guidelines for Vitamin D Supplementation Across Age Groups	2025-11-04
2	Nursing Techniques	Bacterial Biofilms: Complex Living Microbial Communities	2026-04-05
3	Nursing Techniques	Physiology and Functions of the Peripheral Nervous System	2025-12-04
4	Emergency Medical & First Aid Tech.	Laser Technologies and Their Applications in Medicine	2026-03-31
5	Pharmacy Techniques	Stem Cell Extraction Methods and Protocols	2026-03-02
6	Community Health Techniques	The Environmental Microbiome and its Role in Shaping Community Immunity	2025-10-13
7	Community Health Techniques	Dietary Supplements: Efficacy and Health Regulations	2025-10-14

#	Academic Department	Activity Title / Subject	Date
8	Community Health Techniques	Application of Metallic Nanoparticles in Water Treatment and Microbial Control	2025-10-15
9	Community Health Techniques	Rise of Drug-Resistant Fungal Infections: Global Trends	2025-10-16
10	Optometry Techniques	Advanced Modern Techniques in Hyperopia Treatment	2026-04-21
11	Anesthesia Techniques	Veterinary Medicine in One Health: Linking Human, Animal, and Environmental Health	2025-10-30
12	Anesthesia Techniques	The Human Microbiome and its Role in the Development of Infectious and Immune Diseases	2025-11-25
13	Radiology Techniques	Synthetic Bacteriophages and Phage Therapy	2026-11-01
14	Radiology Techniques	Cold Plasma Applications in Dermatology and Cosmetic Medicine	2025-11-27
15	Radiology Techniques	X-Ray Generation Principles and Classification	2026-06-18
16	Radiology Techniques	Climate Change Impact on Antibiotic Resistance in Bacteria	2026-06-16
17	Radiology Techniques	Fungi as a Sustainable Biomaterial of the Future	2026-12-01
18	Radiology Techniques	Smart Stethoscopes in AI-Assisted Clinical Auscultation	2026-11-03
19	Radiology Techniques	Low-Dose Computed Tomography (LDCT) for Early Lung Cancer Screening	2026-07-05
20	Radiology Techniques	Assessment Models for Water Quality Evaluation	2026-05-25
21	Radiology Techniques	Artificial Intelligence in Biological Data Analysis and Pathology Diagnostics	2026-02-22
22	Radiology Techniques	Modern Therapeutic Approaches for Acute Physical Trauma	2026-02-04
23	Radiology Techniques	Cell Culture Techniques for Bioactive Compound Yield Optimization	2026-12-03

Scientific Workshops (33 Activities)

#	Academic Department	Activity Title / Subject	Date
1	Emergency Medical & First Aid Tech.	Importance of Volunteer Work and Challenges in Higher Education Institutions	2025-11-15
2	Emergency Medical & First Aid Tech.	The Role of Vocabulary Building in English Proficiency	2025-01-12
3	Emergency Medical & First Aid Tech.	Management of Acute Poisoning and Emergency Medication Administration	2025-10-12
4	Emergency Medical & First Aid Tech.	Microlearning Strategies in Modern Medical Pedagogy	2026-01-04
5	Emergency Medical & First Aid Tech.	Opportunistic Microorganisms and Their Impact on Immunocompromised Patients	2026-05-02
6	Emergency Medical & First Aid Tech.	Prevention of Accidental Injuries in the Community	2026-03-15
7	Emergency Medical & First Aid Tech.	Sepsis: Early Recognition and Diagnostic Approaches in Emergency Medicine	2026-04-23
8	Emergency Medical & First Aid Tech.	Radiation Protection and Safety Protocols in Hospital Settings	2026-04-30
9	Emergency Medical & First Aid Tech.	Integration of Tissue Culture Techniques with Microbial Control in Disease-Free Plant Production	2026-05-25
10	Pharmacy Techniques	Biohazard Hazards and Safety Procedures in Scientific Laboratories	2026-11-03
11	Community Health Techniques	Water Scarcity: A Critical Challenge to Health and Sustainable Development	2025-10-14
12	Optometry Techniques	Laboratory Safety and Biosafety Management	2026-02-17
13	Optometry Techniques	Personnel Training on Fire Safety Equipment and First Aid Emergency Response	2026-04-01
14	Nursing Techniques	Nutritional Planning and Healthy Diet for Diabetic Patients	2025-11-27
15	Nursing Techniques	Management of Psychological Stress and Anxiety in Clinical Patients	2026-02-09

#	Academic Department	Activity Title / Subject	Date
16	Nursing Techniques	Pedagogical Skills and Advanced Teaching Methodologies	2026-02-16
17	Nursing Techniques	Creative Thinking and Problem-Solving Skills	2026-03-23
18	Anesthesia Techniques	Disease Diagnosis Using ELISA and PCR Techniques	2025-10-20
19	Anesthesia Techniques	Selecting High-Impact Peer-Reviewed Journals for Scientific Publishing	2025-02-11
20	Anesthesia Techniques	Green Biochemistry: Principles and Sustainable Applications	2025-11-11
21	Anesthesia Techniques	How to Interpret Nutrition Labels to Determine Vitamin and Mineral Content	2026-02-02
22	Anesthesia Techniques	Requirements and Standards for Reputable Academic Publishing	2026-01-03
23	Radiology Techniques	Laboratory Animal Handling Protocols and Ethical Guidelines	2025-12-31
24	Radiology Techniques	Expected Biological Hazards and Mitigation in X-Ray Imaging	2025-12-11
25	Radiology Techniques	Clinical Indications and Indications for X-Ray Diagnostic Examinations	2025-05-14
26	Radiology Techniques	Clean Water and Sanitation: Technical and Health Dimensions	2026-01-13
27	Radiology Techniques	Genetically Engineering Yeasts for Pharmaceutical Production	2025-12-23
28	Radiology Techniques	The Role of Radiologic Technologists in Emergency Departments	2026-01-29
29	Radiology Techniques	Artificial Intelligence Applications in Advanced Medical Instrumentation	2025-11-19
30	Radiology Techniques	Practical Techniques in Isolating and Identifying Pathogenic Bacteria	2025-12-23
31	Radiology Techniques	Mitochondrial Health: Key to Cellular Energy and Longevity	2025-11-20

#	Academic Department	Activity Title / Subject	Date
32	Radiology Techniques	Production of Bioactive Compounds from Callus Cultures	2025-11-12
33	Radiology Techniques	Laboratory Rats in Scientific Research: Advantages and Limitations	2026-01-15

Electronically prepared and organized as an official reference guide for the Academic Plan & Scientific Activities of the Medical Technical Institute - Mosul for the academic year 2025-2026.