



Department of Anesthesia, Surgical Intensive Care & Pain Management

Logbook of MS





Personal Data

Name:
Department
Mobile Number:
E-mail Address:
1.3' F.
MS Degree: Date of registration:/
3
Signature:
Head of the Department Vice Dean for Research and Postgraduate Study
Head of the Department Vice Dean for Research and Postgraduate Study

نظام الامتحانات وتوزيع الدراجات لمقررات الفصول الدراسية (لماجستير تخدير وعناية مركزة جراحية وعلاج ألم)

			درجة المقرر		
لفصل الدراسي	المقرر	مدة الاختبار النهاني	أعمال فصلية (20%)	الاختبار اللهاني (80%)	الدرجة الاجمالية
لقصل الدراسي	امتحانات المقررات الدراسية الإجبارية ا	مؤهلة والمذكورة في بند أو	لا من الباب الثالث للانحة	بمعرفة الدراسات الطيا	بالكلية.
الأول	 مقرر في الباطنة العامة. 	ساعتين رنصف	30	120	150
	 مقرر في الفيزياء الحيوية والقياسات الإكلينيكية. 	ساعتين ونصف	30	120	150
	- مقرر في التخدير جزء أول	ساعتين ونصف	30	120	150
فصول الدراسية	- مقرر في التخدير جزء ثاني.	ساعتين ونصف	30	120	150
الشاتي والمثالث والرابع	- مقرر في التخدير جزء ثالث.	ساعتين ونصف	30	120	150
	- مقرر في العناية المركزة.	ثلاث ساعات	40	160	200
	- مقرر في علاج الألم.	ثلاث ساعات	40	160	200
	- المقرر الاختياري,	ساعة ونصف	20	80	100
فصل الدراسي الخامس	المقرر التطبيقي إكانينيكي التكاملي في التخدير والعناية المركزة وعلاج الألم) الامتحان الاكانينيكي النهاني التكاملي ويشتمل على: - محطات امتحانات إكانينيكية وشفوية في التخدير والعناية المركزة وعلاج الألم		100 (المقرر التطبيقي التكاملي في التخدير والعناية المركزة وعلاج الألم)	400 (مرزعة على المحطات الامتحانية)	500

31 - درجة الماجستير في التخدير والعناية المركزة الجراحية وعلاج الألم

(ANET 528)

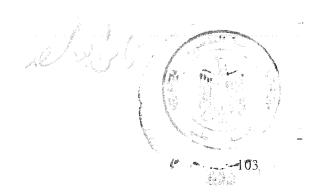
القسم المانح للدرجة: قسم التخدير والعناية المركزة الجراحية وعلاج الألم

مسمى الدرجة: درجة الماجستير في التخدير والعناية المركزة الجراحية وعلاج الألم

Master Degree in Anesthesia, Surgical Intensive Care and Pain Management

المقررات الدراسية وتوزيع الساعات المعتمدة للفصول اندراسية

الساعات المعتمدة		1.461	الكود Course الكود		الفصل
الإجمالي	المقرر	المشواة	Course	المعرز	الغصن
10	8	مقررات دراسية اجبارية المذكورة في بند أولا من الباب الثالث من اللائحة			1
10	2	ANET 510 IM	-Internal Medicine.	ـمقرر في الباطنة العامة.	الفصل الدراسي الأول
	2	ANET 528 BCN	- Basics of Biophysics and Clinical Measurements.	مقرر في مبادئ الفيزياء الحيوية والقياسات الإكلونيكية.	
	3	ANET 528 AN I ANET 501 AN I	-Anesthesia part I.	مقرر في التخدير جزء أول.	
	2	ANET 528 AN II ANET 503 AN II	-Anesthesia part II.	ـ مقرر في الشخدير جزء ثاني.	
20	3	ANET 528 AN III ANET 506 AN III	- Anesthesia part III.	ـ مقرر في التخدير جزء ثالث.	
	5	ANET 528 IC ANET 506 IC ANET 503 IC	-Intensive Care.	. مقرر في العناية المركزة.	والثالث والرابع
	5	ANET 528 PM ANET 501 PM ANET 503 PM ANET 506 PM	-Pain Management.	. مقرر في علاج الالم.	
10	8	ANET 528 AAIP	- Applied clinical course in Anesthesia, Intensive Care and Pain Management.	المقرر التطبيقي إكلينيكي التكاملي في التخدير والعناية لمركزة وعلاج الألم.	
		Elective course (only one):مقرر اختياري (واحد فقط):		القصل الدراسي الشامس	
	2	ANET 528 RA	- Radiology related to Anesthesia.	. مقرر في الأشعة المرتبطة بالتخدير	
		ANET 528 T	- Trauma.	. مقرر في الاصابات.	
12	12 ساعة معتمدة توزع على القصول الدراسية من المثاني الى الخامس			الرسالة	
52	إجمالي الساعات المعتمدة				







Aim of the Logbook.

To provide evidence that the candidate attained the desired level of competence required to gain the award. In this book, the candidate will document all academic and clinical skills he/she attained during their training.

Important regulations (for MS candidates):

- -To be legible for the first part MS exam you have to attend at least 70% of the lectures of each course in the semester as evidenced by the logbook
- -To be legible for the (MCQ online) exam at the end of each of second part semesters you have to attend at least 70% of the lectures of each course/module in the semester as evidenced by the logbook.
- To be legible for the final MS exam:
- 1- A time interval of 36 months must pass since the day of registration to the job for residents and demonstrators and 30 months since the day of degree registration for non-residents.
- 2- You have to spend a year of daily clinical/practical training in the department or two years with three times/week practical/clinical training.
- 3-You have to register 4 semesters on Ibn-lhaythm registration page.
- 4- You have to attend 70% of the lectures of each course in the second part of MS degree.
- 5- You have to fulfill and perform 70% of the practical skills documented in the logbook.





Contents

Section I. Scientific Lectures

Section II: Procedures

Section III. Clinical Rotation

Section IV:Seminars

Section V. Scientific Activities (Conferences/Workshops)

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Section I:

Scientific Lectures

Insert the suitable number of timetables for each of first and second part courses taking into account:

- 1- The number of lectures of each courseand its teaching hours whichare determined by its credit hours (1credit =15 teaching hours).
- 2- The timetables of each course should be copied from its course specification.
- 3- The timetables must be updated each time the course specification is updated.





Name of the course: Basics of biophysics

Compulsory/Elective: Compulsory Credit hours: 2

Semester: (spring/fall/summer) year......

Date	Title of the lecture	Lecturer's signature
	Basic physical principles	
	Flow & volume &pressure measurement	
	Laminar& turbulent flow	
2	Gas laws	3
10.	Humidity	
2	Transducers	NE
12	Biological membranes	0
19	Measurement of O ₂ , Co ₂ , H, anesthetic agents	9
	Gas supply system	
	Anesthesia machine	
	Vaporizers	
	Flowmeters	
	Anesthetic circuits	





	Gas scavenging systems	
	ECG	
	Pulse oximetry	
	Capnography	
	Pulmonary artery catheterization	
	Non-invasive blood pressure monitoring	
	Invasive blood pressure monitoring	2.3
14	CVP monitoring	1
1.9.	Temperature monitoring	12
3	COP & blood flow monitoring	E
12	Monitoringof CNS	J. I.
150	Neuromuscular monitoring	3/
10	Physics of patient positioning	7/
	ECHO physics	
	Cardiac pacing and defibrillation	
	Ultrasound & laser	
	The Operating Room safety	





Name of the course: Internal medicine

Compulsory/Elective: Compulsory Credit hours: 2

Semester: (spring/fall/summer) year......

Date	Title of the lecture	Lecturer's signature
	General	
	Cardiovascular diseases	
	Respiratory diseases	
	GIT diseases	-3
14	Liver diseases	
1.5'	Kidney diseases	15
	Endocrine disorders	
2	Blood diseases	2
12	History taking	5
100	General examination	5/
13	Head & neck examination	7/
	CVS examination	
	Chest examination	
	Abdominal examination	
	Upper & lower limb examination	





Name of the course: Anesthesia 1 Compulsory/Elective: Compulsory

Credit hours: 3 Semester: (spring/fall/summer) year......

Date	Title of the lecture	Lecturer's signature
Anatomy		
	Embryological principles	
	Anatomy of mouth cavity	
	Anatomy of nasal cavity	23
	Anatomy of pharynx	
-	Anatomy of larynx	3 =
10,	Anatomy of chest	IV
3	Anatomy of heart	12
12	Anatomy of spinal cord	(5)
10	Anatomy of meninges	3/
	Anatomy of cranial nerves	4/
	Brachial, cervical, lumbosacral plexuses	
	Anatomy of major nerves	
	Anatomy of majorblood vessels	
	Anatomy superficial blood vessels	
	Anatomy of major joints	





Date	Title of the lecture	Lecturer's signature	
Applied Phari	Applied Pharmacology related to anesthesia, ICU& pain		
	Inhalational anesthetics 1		
	Inhalational anesthetics 2		
	Nonvolatile anesthetic drugs 1		
	Nonvolatile anesthetic drugs 2		
,	Neuromuscular blocking agents		
	Adrenergic agonists& antagonists		
	Anticholinergics& cholinesterase inhibitors	-2	
14	Benzodiazepines		
[:2]	Opioids	15	
	Non-opioid analgesics		
2	Adjuncts to anesthesia	2	

Date	Title of the lecture	Lecturer's signature
Obstetric a	ane <mark>sthesia</mark>	
	Changes during pregnancy	
	Anesthesia for normal labor 1	
	Anesthesia for normal labor 2	
	Anesthesia for cesarian section 1	
	Anesthesia for cesarian section 2	
	Preeclampsia: pathophysiology	
	Preeclampsia: management	
	Eclampsia	





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	Pre-partum hemorrhage: placenta previa	
	Post-partum hemorrhage: types&management	
	Obstetric patient & CVS diseases 1	
	Obstetricpatient & CVS diseases 2	
	Obstetric emergencies 1	
	Obstetric emergencies 2	
	Anesthesia of pregnant for non-obstetric surgery 1	
	Anesthesia of pregnant for non-obstetric surgery 2	
CVS anesthes	ia& Cardio-thoracic surgery	
	Cardiac cycle	- 2
	Coronary circulation	
1-5/	Waveform analysis	
1:0	Anesthetic drugs related for cardiac surgery	1
3	Pharmacology of anticoagulants&antiplatelet drugs related for cardiac surgery	Щ
E	Anesthetic considerations of HTN	51
120	Anesthetic considerations of IHD	0
10.	Anesthetic considerations of HF	5/
10,	Anesthetic considerations of cardiomyopathy	
13	Anesthetic management of valvular diseases 1	
	Anesthetic management of valvular diseases 2	
	Anesthesia of congenital heart diseases	
	Anesthetic management of pulmonary HTN	
	Cardiopulmonary bypass machine	
	Anesthetic management for valve replacement	
	Anesthetic management for CABG surgery	
	Anesthesia for congenital heart surgery	





	Anesthetic management for vascular surgeries	
	Anesthetic management for aortic surgery	
	Anesthesia for cardiac tamponadeand tumours	
	Mechanical assist devices	
	Echo review	
	Anesthetic principles of thoracic surgery	
	One lung ventilation	
Renal anesthe	esia	
	Renal physiology	
	Pharmacological considerations for CRF	2-1
	Anesthesia of renal impairment & CRF	
	TURP syndrome	2
3.0	Anesthesia during renal transplantation	5
	Anesthesia for lithotripsy	11.

Name of the course: Anesthesia 2

Compulsory/Elective: Compulsory

Credit hours: 2 Semester: (spring/fall/summer) year.....

Date	Title of the lecture	Lecturer's signature
Phsiology	ERSITYFACULI	
	Pain sensation & pain control system	
	Motor muscle tone & stretch reflex	
	Sensory & motor pathways	





	Cerebral blood flow& circulation	
	Regulation of ABP	
	СОР	
	Shock & hemorrhage	
	Resting membrane potential	
/	Action potential	
8	Neuron transmission	
	Excitation-contraction coupling	2.1
141	Regulation of respiration	
1:9.1	Transportation of O ₂ &CO ₂	17
3	7 37 32 7	N N N N N N N N N N N N N N N N N N N

Date	Title of the lecture	Lecturer's signature
Neuro-anes	sthesia	2
10	Neuro-anatomy	
	Radiology of CNS	
	Neurophysiology	r.
	Effect of anesthetic drugs on CNS physiology	
	Blood brain barrier	
	Brain protection	
	CSF physiology	
	Intra-cranial pressure	
	Head trauma	
	Anesthesia of supra-tentorial tumors	





	Anesthesia of infra-tentorial tumors	
	Anesthesia of posterior fossa tumors	
	Anesthesia of cerebral aneurysm	
	Pituitary tumours	
	Anesthesia of spine surgery	
	Anesthesia of carotid end-arterectomy	
	Neuromuscular transmission&monitoring	
	Patient positioning	
	Awake craniotomy	
	Pediatric neuro-anesthesia	
	Anesthetic consideration for psychiatric diseases	
GIT& Bariat	ric anesthesia	
1:21	Hepatic physiology	5
	Drugs acting on GIT	1
5	Anesthesia for laparoscopy	7
E	Anesthetic consideration for LCF	
1 20	Anesthesia for hepatic transplant patient	0
10	Anesthesiafor Intestinal obstruction	
7	Physiological changes in morbid obesity	
	Anesthetic consideration for bariatric surgery	
Orthopedic a	anesthesia	
	Geriatric physiology	
	Spinal anesthesia	
	Epidural& caudal anesthesia	
	Complications of neuro-axial anesthesia	
	Regional anesthesia	
	Anesthesia for myasthenia gravis	





	Anesthesia for other musculoskeletal diseases	
	Malignant hyperthermia	
	Anesthetic considerations for trauma patients	
	Total hip and knee replacement surgery	
ENT anesthe	esia	
	Post-tonsillectomy bleeding	
	Anesthetic consideration for surgeries on nose	
	Anesthetic consideration for ear surgeries	
	Anesthetic consideration for laryngeal surgeries	
	Anesthesia for surgeries on upper air way	-3-
	Hypotensive anesthesia	
14	Maxillofacial & dental anesthesia	
1:01	Anesthetic consideration for Laser surgery	15
	Special equipments for ENT surgeries	

Name of the course: ICU

Compulsory/Elective: Compulsory

Credit hours: 5 Semester: (spring/fall/summer) year......

Date	P	Title of the lecture	Lecturer's signature
		H ⁺ regulation	
		Hypoxia &cyanosis	
		Types of fluids	
		ICU design	
		Infection control	
		Cardiopulmonary resuscitation	





	Central venous catheterization	
	Mechanical ventilation 1	
	Mechanical ventilation 2	
	Mechanical ventilation 3	
	Mechanical ventilation 4	
	Enteral and parenteral nutrition 1	
	Enteral and parenteral nutrition 2	
0	Enteral and parenteral nutrition 3	
12	Acid-base balance 1	
	Acid-base balance 2	
14/	Acid-base balance 3	
1.5'/	Fluid & electrolyte disturbances 1	
.0	Fluid & electrolyte disturbances 2	N.
3	Fluid & electrolyte disturbances 3	M
Z	Arrhythmia 1	
1 70	Arrhythmia 2	S
101	Arrhythmia 3	5
100	Acute coronary syndrome 1	
17	Acute coronary syndrome 2	
	Pulmonary embolism 1	
	Pulmonary embolism 2	
	ARDS 1	
	ARDS 2	
	Aspiration pneumonitis	
	Sepsis & septic shock: pathophysiology 1	





	0	
	Sepsis & septic shock: pathophysiology 2	
	Sepsis & septic shock: management 1	
	Sepsis & septic shock: management 2	
	Management of burn 1	
	Management of burn 2	
	Intracranial hypertension	
/.	Coagulation cascade	
0	Thromboelastography 1	
/ 9/	Thromboelastography 2	
	Fluid & blood components 1	
14/	Fluid & blood components 2	
1.5'/	Diabetic comas	1
.0	Management of trauma patients 1	V
3	Management of trauma patients 2	Щ
P	Delirium	5
7	Post-operative complications 1	C
100	Post-operative complications 2	5 /
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Name of the course: Anesthesia 3

Compulsory/Elective: Compulsory

Credit hours: 3 Semester: (spring/fall/summer) year.....

Date	Title of the lecture	Lecturer's signature
Pharmacology		
	General Pharmacology 1	





	General Pharmacology 2	
	General Pharmacology 3	
	Autonomic pharmacology 1	
	Autonomic pharmacology 2	
	Autonomic pharmacology 3	
/	Autonomic pharmacology 4	
	Drugs acting on CVS1	
	Drugs acting on CVS 2	2-1
14	Drugs acting on CVS 3	
1:51	Drugs acting on CVS 4	E
2	Drugs acting on CNS 1	ш
三	Drugs acting on CNS 2	<
70	Drugs acting on CNS 3	5
10	Drugs acting on CNS 4	9/

Date	Title of the lecture	Lecturer's signature	
Respiratory anesthesia			
	Respiratory physiology 1		
	Respiratory physiology 2		
	Interpretation of PFTs		





	Drugs acting on respiratory systems	
	Difficult airway: assessment	
	Difficult airway: management	
	Airway management techniques	
	Airway emergencies	
	Obstructive lung diseases	
	Anesthesia of asthmatic patients	
	Anesthesia of COPD patients	
()	Obstructive lung diseases	
12	Anesthesia of OSAS patients	
	Post-operative pulmonary complications	2
Ophthalmic a	nesthesia	
1.5'	Anatomy of the eye	3
1.0	Techniques of local ocular anesthesia	
3	Effect of anesthesia on IOP	Ш
P	Oculo-cardiac reflex	>
12	Anesthetic considerations for different eye surgeries	10/
10,1	Rupture globe	0 /
Endocri <mark>ne</mark> and	esthesia	
13	Diabetic patients: pathophysiology	
	DM: anesthetic considerations	
	DM: peri-operative management	
	Hyperthyroidism: pathophysiology	
	Hyperthyroidism: anesthetic management	
	Hypothyroidism: pathophysiology	
	Hypothyroidism: anesthetic management	
	Hyperparathyroidism	





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	Hypoparathyroidism	
	Adreno-cortical crisis	
	Anesthesia for pheochromocytoma	
	Other endocrinal disorders	
	Hematology physiology	
	Hematological&coagulation disorders 1	
	Hematological &coagulation disorders2	
	Peri-operative anesthetic problems	
Pediatric ane	sthesia	
19	Physiological changes in pediatrics	
	Considerations for pediatric surgery	2-1
	Congenital diaphragmatic hernia	
	Trachea-esophageal fistula	
1:2	Pyloric stenosis	
	Anesthesia for cleft lip & palate	
3	Neonatal anesthesia	Ш
P	Day case surgery	<
7	Sedation	Ci
1001	Pediatric emergencies	
0,1	Upper airway endoscopy) /
100	Upper GIT endoscopy	

Name of the course: Pain

Compulsory/Elective:Compulsory First/Second part: Second

Credit hours: 5 Semester: (spring/fall/summer) year......

Date	Title of the lecture	Lecturer's signature
	Definitions	





	Pain pathway	
	Pain physiology	
	Antidepressant drugs	
	Anticonvulsant drugs	
	Pain measurement	
	Acute post-operative pain 1	
	Acute post-operative pain 2	
	Stress response	
0	Chronic pain 1	
	Chronic pain 2	-5
	Pharmacological interventions	
(:5)	Anatomy of vertebral column, Epidural space& dermatomal distribution	-
	Degenerative changes in back pain	
3	How to examine the back	1
E	Clinical presentation of LBP	11
120	Medical &interventional treatment of LBP 1	2
0.	Medical & interventional treatment of LBP 2	
10	Failed back surgery syndrome	
	Cancer pain 1	
	Cancer pain 2	
	Types of neuropathic pain	
	Trigeminal neuralgia	
	Glossopharyngeal neuralgia	
	Post-herpetic neuralgia	
	Diabetic neuralgia	





	Complex regional pain syndrome	
	Myofascial pain	
	Entrapment syndromes	
	Sympathetic blocks	
	Stellate ganglion block	
	Celiac plexus block	
	Splanchnic nerve block	
:	Hypogastric plexus block	
/ /	Ganglion impar block	4
	Paravertebral block	
14/	Neurolytic blocks & radiofrequency ablation	
1:51	Somatic blocks 1	5
	Somatic blocks 2	111
2	Brachial plexus block	2
12	Bier block	
100	Peripheral nerve blocks 1	2/
9,	Peripheral nerve blocks 2	
1	Peripheral nerve blocks 3	
	Headache 1	(1)
	Headache 2	
	Palliative care medicine	

Name of the course: Applied anesthesia, ICU & pain

management (Advanced)

Compulsory/Elective: Compulsory

Credit hours: 8 Semester: (spring/fall/summer) year......





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Name of the course: Radiology related to anesthesia

Compulsory/Elective: Elective

Credit hours: 2 Semester: (spring/fall/summer) year......

Date Title of the lecture Lecture





,		
	Principles of X-ray	
	Principles of CT scan	
	Principles of MRI	
	Principles of U/S	
	Chest X-ray 1	
0	Chest X-ray 2	
2	CT chest 1	
	CT chest 2	17
13/	Brain CT 1	15-
1:0	Brain CT 2	12
3	Cervical, thoracic & lumbar X-ray 1	1 2
2	Cervical, thoracic & lumbar X-ray 2	151
18	CT abdomen	5
0	FAST 1	87
A	FAST 2	
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Section II: Procedures ANSOLIPACILITY OF MEDICAL PROPERTY OF MEDICAL





List of requirements

Name of the procedure	Total number required	Observer	Assistant	Independent
Oral endotracheal intubation	80	10	10	60
Nasalendotracheal intubation	20	5	5	10
Supraglottic airway devices	40	5	10	25
Fiberoptic intubation	10	4	3	3
Difficult venouscannulation	50	5	5	40
Central vein catheterization	30	5	5	20
Pulmonary art. catheterization	5	5	F	1
Arterial cannulation	10	2	2	6
Spinal anesthesia	80	10	10	60
Epidural anesthesia	30	5	5	20
Caudal anesthesia	10	2	3	5
Paravertebral anesthesia	5		2	2
U/S brachial plexus block	20	5	5	10
U/S regional nerve blocks	30	10	10	10





Procedures Log

Level of participation:

Observer

Assistant

Independent

Procedure 1: Oral endotracheal intubation				
Level of participation	Date Date	Location	Signature of supervisor	
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Procedure 2: Nasalendotracheal intubation					
Level of participation	Date	Location	Signature of supervisor		
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Procedure 3:Supraglottic airway devices					
Level of participation	Date	Location	Signature of supervisor		
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Procedure 4: Fiber	optic intubation	
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Pi	rocedure 6:Central	vein catheterization	on
Level of participation	Date	Location	Signature of supervisor





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	Procedure 12: Parvertebral anesthesia						
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Procedure 13: U/S brachial plexus block							
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Clinical Rotation

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List of requirements:

1- Seminar attendance: 10 times

2- Seminar performance:3 times

1- Attendance

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2- Performance

Topic	Date	Supervisor signature





Section V:
Scientific Activities
(Conferences/Workshops)





List of requirements:

Conferences					
Total number required	Attendance	Organization	Presentation		
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9	Worksho	ps	1.12		
Total number required	Attendance	Organization	Presentation		
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Activity (Conference/Workshop)	Role	Date	Supervisor's signature
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Role:

- -Attendant
- -Organizer
- -Presenter