

## Introduction

The Glass Blowing Workshop, School of Chemical Sciences USM, was founded in the early 80's. Its main task is to provide alternatives for fabrication, repair and consultation of scientific glassware. Until now it has been recognised as one of the best glass blowing workshops in Asia and has become the main centre of reference in terms of glass blowing specialities.

## Services Offered



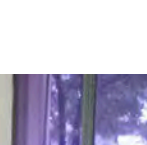
Fabrication and repair of glassware



Design of glassware



Consultancy of glassware care



Glass blowing training/course

## Contact Us

### Nurul Arlita Kushiar

Coordinator/Chief Science Officer  
School of Chemical Sciences  
Universiti Sains Malaysia  
11800, USM, Minden, Pulau Pinang  
04-6534058  
arlita@usm.my

### Mohd Nazeef Ahmad

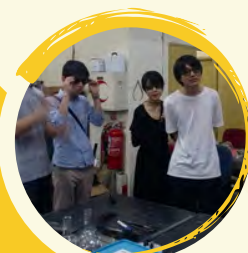
Glassblower/Assistant Science Officer  
School of Chemical Sciences  
Universiti Sains Malaysia  
11800, USM, Minden, Pulau Pinang  
04-6532690  
mohdnazeef@usm.my



Fabricated glasswares



Fabrication of glassware by Mr. Nazeef Ahmad



Glass blowing class with students

# GLASS BLOWING Workshop

Pusat Pengajian Sains Kimia  
School of Chemical Sciences



Register NOW

THE ART OF GLASSBLOWING



## GLASSBLOWING WORKSHOP SYLLABUS

TYPE OF COURSE	SYLLABUS	TOTAL HOUR/MINUTE	DURATION	PRICE	MATERIALS
Scientific	<ul style="list-style-type: none"> <li>• Safety Management</li> <li>• Introduction to scientific glass:                             <ul style="list-style-type: none"> <li>➤ Type of glass</li> <li>➤ Glass cut techniques</li> <li>➤ Fire polished glass</li> </ul> </li> <li>• Technique of control, classification and repair of glass apparatus Practical session</li> <li>• Practical session</li> </ul>	15 mins 2 hour 45 mins  3 hour  1 hour	9:00 am – 5:00 pm (1 day)	RM200.00	✓ Notes ✓ Pen ✓ Handout ✓ File
Artistic/ Decorative	<ul style="list-style-type: none"> <li>• Safety Management</li> <li>• Techniques of controlling the artistic glass</li> <li>• The basic demonstrations of artistic glass blowing</li> <li>• Practical session</li> </ul>	15 mins 15 mins 30 mins 3 hour	9:00 am – 1:00 pm	RM150.00	
Basic Glassblowing I	<ul style="list-style-type: none"> <li>• Safety Management</li> <li>• Introduction to scientific glass:                             <ul style="list-style-type: none"> <li>➤ Type of glass</li> <li>➤ Glass cut techniques</li> <li>➤ Fire polished glass</li> </ul> </li> <li>• Basic proficiency practical glass blowing                             <ul style="list-style-type: none"> <li>➤ Rotation of glass</li> </ul> </li> <li>• <b>Project 1</b> - Fabrication of dropper</li> <li>• <b>Project 2</b> - Techniques of making straight joint</li> <li>• <b>Project 3</b> - Techniques of making U bend</li> <li>• <b>Project 4</b> - Techniques of making L bend</li> <li>• <b>Project 5</b> - Techniques of making T joint</li> <li>• <b>Project 6</b> - Techniques of making Y joint</li> <li>• Revision, Test and Certificate Ceremony</li> </ul>	15 mins 2 hour 45 mins  3 hour  3 hour 7 hour 4 hour 4 hour 4 hour 4 hour 5 hour	5 working days	RM1,400.00	
Basic Glassblowing II	<ul style="list-style-type: none"> <li>• <b>Project 7</b> - Techniques of making round bottom end (Test tube)</li> <li>• <b>Project 8</b> - Techniques of joining different diameter seal</li> <li>• <b>Project 9</b> - Techniques of making basic round bottom flask</li> <li>• <b>Project 10</b> - Techniques of making center bulb</li> <li>• Revision, Test and Certificate Ceremony</li> </ul>	8 hour 10 hour 6 hour 8 hour 5 hour	5 working days	RM1,400.00	
Basic Glassblowing III	<ul style="list-style-type: none"> <li>• <b>Project 11</b> - Techniques of making internal seal</li> <li>• <b>Project 12</b> - Fabrication of wash bottle head</li> <li>• <b>Project 13</b> - Fabrication of simple distillation unit</li> <li>• <b>Project 14</b> - Fabrication of simple water pump</li> <li>• Revision, Test and Certificate Ceremony</li> </ul>	5 hour 5 hour 11 hour 11 hour 5 hour	5 working days	RM1,400.00	
Basic Glassblowing IV	<ul style="list-style-type: none"> <li>• <b>Project 15</b> - Fabrication of simple essential oil set</li> <li>• <b>Project 16</b> - Technique of repairing glass apparatus</li> <li>• <b>Project 17</b> - Technique of glass modification</li> <li>• Revision, Test and Certificate Ceremony</li> </ul>	9 hour 14 hour 9 hour 5 hour	5 working days	RM1,400.00	