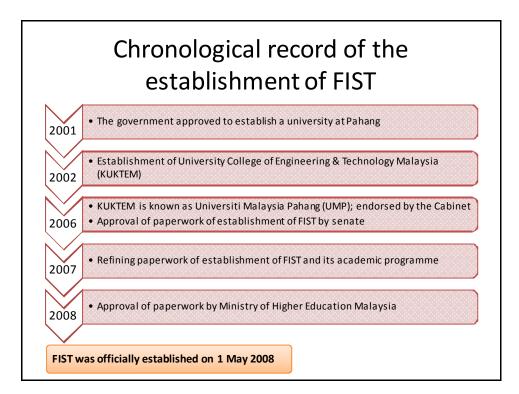
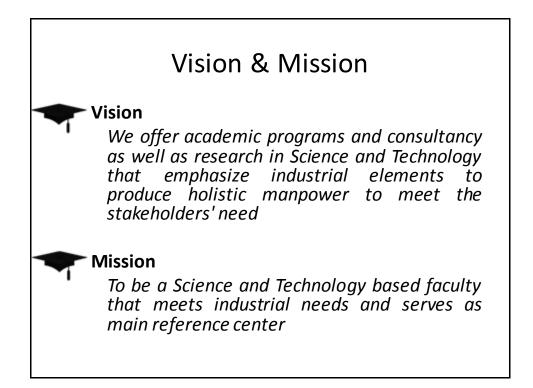
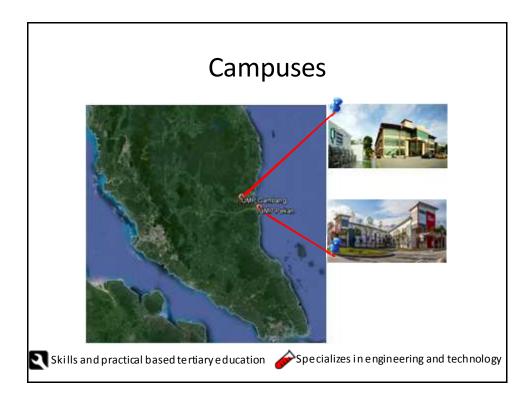
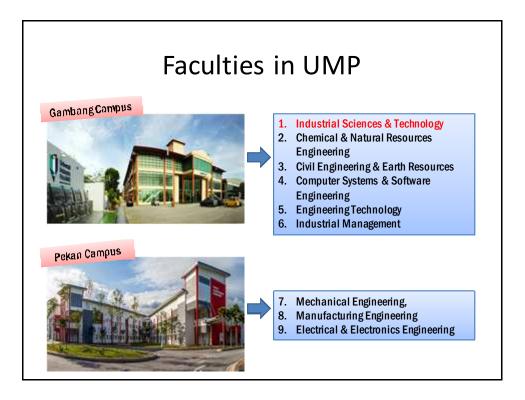


Faculty of Industrial Sciences & Technology (FIST)



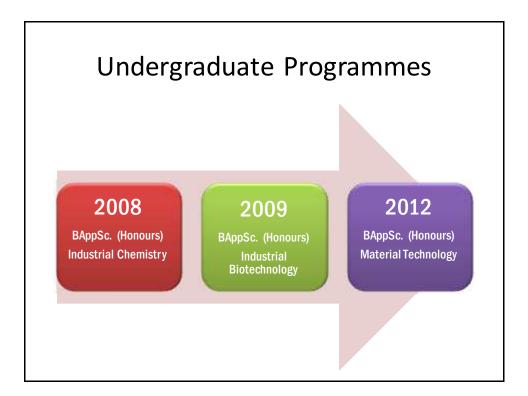




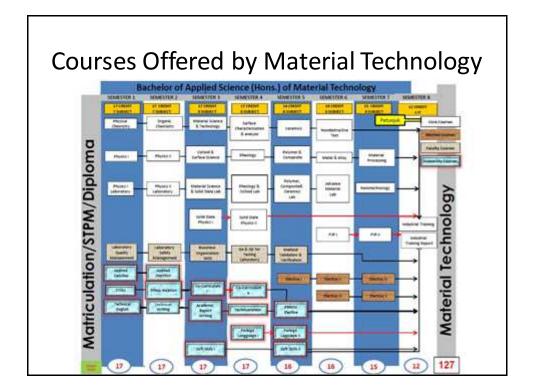








| Types of Course | S | Credit Hours | | Description | | | | |
|-------------------|-----|----------------------|---|--|---|---|----|---|
| Core | (58 | (58+ *6 + **12 = 76) | | Courses, *FYP, **Industrial Training | | | | |
| Elective | | 15 | | | | | | |
| Faculty | | 16 | | Applied Calculus, Applied Statistics, LQM, LSM, MVV, QAQCTL, Business Organization | | | | |
| University | | 20 | | Soft skills, language, co-curriculum, technical/report writing | | | | |
| To tal Credit | | 127 | | Graduation Requirement = 127 credit hours | | | rs | |
| Type of courses | | SEMESTER | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Core | | | | | | | | • |
| Elective | | | | | | | | * |
| Faculty | | | | | | • | | |
| University | | | | | | • | | |
| Final Yr. Project | | | | | | | | |

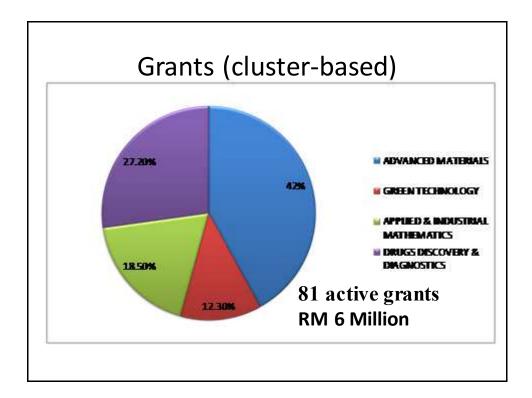


Elective Courses

- Thin Film Technology
- Supercapacitor Technology
- Solar Cell Technology
- Corrosion
- Liquid Crystals Technology
- Molecular Modelling
- Semiconductor Devices
- Recycle Technology
- Computational Physics

| Advanced Materials & | Postgra | aduates | Mathematics and Statistics |
|---|--|--|--|
| Nanostructured Materials Renewable Energy Materials and Devices Supercapacitors Semiconductor Physics Optical Physics Polymer Nanocomposites Biomaterials Other Advanced Materials and Physics Related Field | Natural Products Fine & Specialty Chemicals Catalysis Oleochemical Petrochemical Polymer Chemistry Analytical Chemistry Analytical Chemistry Food Chemistry Organometallic Chemistry Other Chemistry Related Field | Bioprocess and Fermentation Enzyme/Protein Technology Industrial Biochemistry Industrial Biochemistry Bioremsor/Diagnostic Kits Bioremediation Cell Culture Technology Orug Delivery and Discovery Omics Technology Plant Biotechnology Carbohydrate Technology Bioinformatics Molecular Biology Other Biotechnology Related Field | Mathematical Modelling/ Fluid Flows/ Heat Mass Transfer Fluid Dynamic Solid Mechanics Numerical Analysis Mathematical Education Group Analysis Bio-mathematics Computer Aided Geometric Design (CAGD) Rainfall Modelling Pattern Recognition Otructural Equation Modelling Stochastic Modelling Itme Series Analysis Oultivariate Analysis Oultivariate Analysis Oultivariate Analysis Outerdiang Research Interdisciplinary Research Quality & Productivity Circular Statistics Other Mathematical Related Field |

| DRUG DISCOVERY & DIAGNOSTICS | ADVANCED MATERIALS | GREEN TECHNOLOGY | APPLIED & IND. MATHEMATICS | |
|---------------------------------------|--------------------------|------------------------|-------------------------------|--|
| Dr. Jaya Vejayan | Prof. Dr. Jose Rajan | Dr. Essam Makky | Dr. Mohd Sham | |
| Omics Technology | •Functional Materials | •Biomass Conversion | •Market & Trends | |
| Biodiagnostics | •Photonic Materials | •Bioremediation | •Dynamical System | |
| Organic Synthesis | •Catalyst | •Plants, Soils & | | |
| Natural Products | | Microbe | | |
| | | •Renewable Energy | | |













lon chromatography, UV-Visible spectrometer

X-ray diffractometer

Gas chromatography

