

A Teaching Factory

Karachi Tools, Dies & Moulds Centre

Progress Through Knowledge & Skills

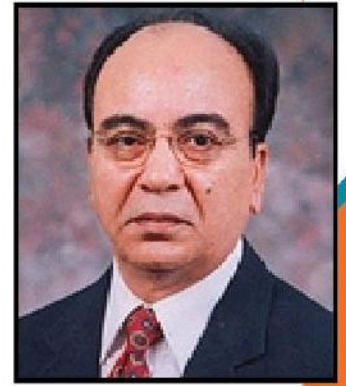


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CEO's Message

Our world today is in a state of flux. Information Technology has changed virtually every facet of our lives, and an ever-evolving business environment affects each and every one of us. In order to keep pace with this unrelenting change, we must continue to acquire the skills and knowledge required to embrace the innovations that are engulfing the global scenario.



As a developing nation, it is imperative for our work force to acquire technical and professional skills, to enable our nation to compete in today's global arena. We must widen our intellectual horizons so as to make our country an equal beneficiary of the global technologies of the 21st century.

By choosing KTDMC, you have assured yourself of a Teaching Factory experience which will enrich your personal life, and empower your professional life. We are committed to providing a stimulating and supportive environment which allows each student to gain confidence and maximize his or her potential in Dies & Moulds Technology.

Our academic programs and courses are designed keeping in view the latest strides in Dies & Moulds. Our faculty is eminently qualified, and dedicated to equip the younger generation with the essential academic, professional and personal skills required for competing in today's challenging environment. We welcome you to our institution, where you will not only gain practical knowledge in your targeted field, but also learn to lead, and serve humanity. We hope your association with KTDMC will be a memorable one.

A handwritten signature in blue ink, which appears to read 'Syed Javaid Ashraf'.

Syed Javaid Ashraf
Chief Executive Officer

Teaching Factory



Why choose KTDMC?

KTDMC is a Teaching Factory setup to provide Trainings and services to upgrade the skills of Technicians and Professionals to learn Tools, Dies and Moulds Manufacturing technologies including Computer Aided Designing (CAD) and Manufacturing (CAM).

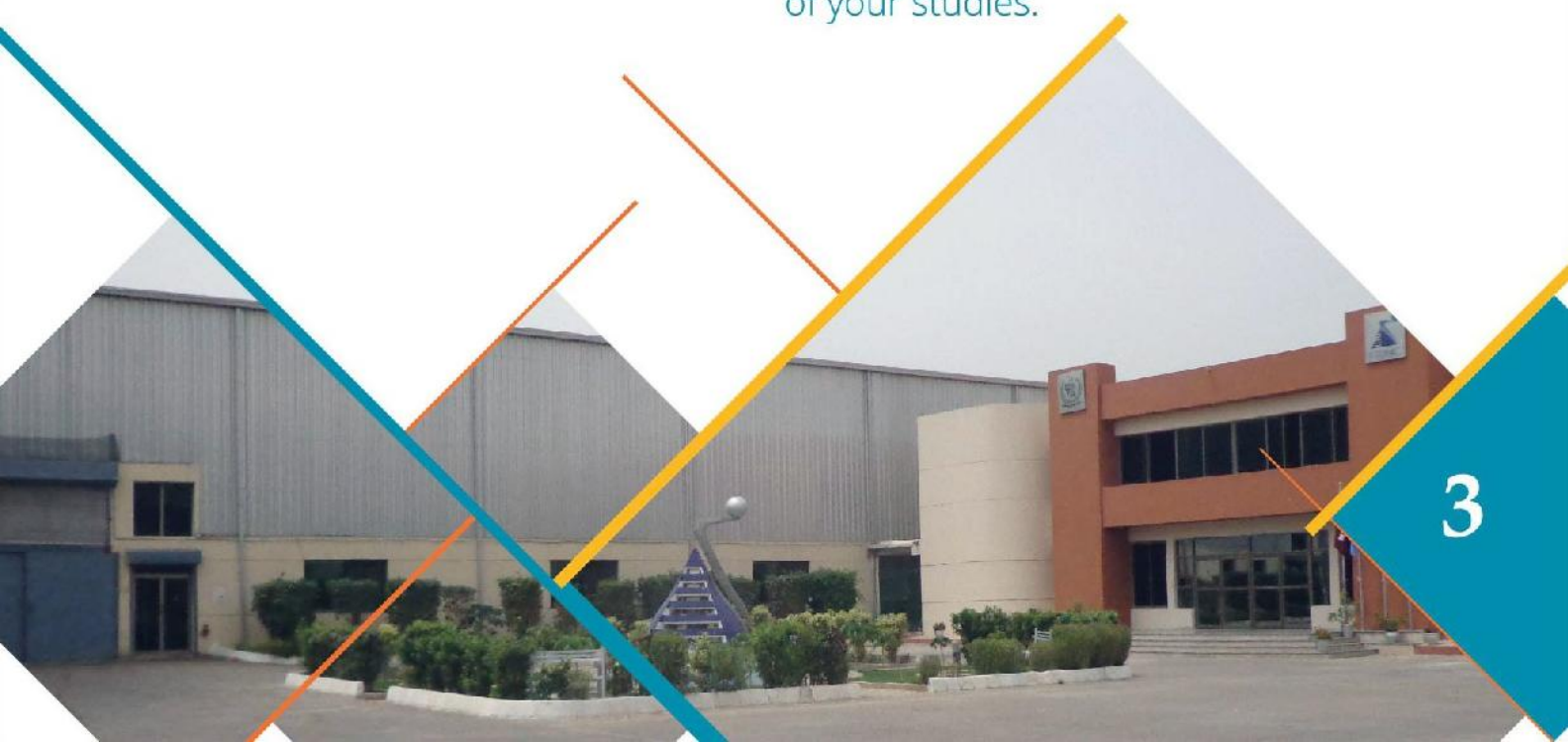
We have produced more than 100 Dies and Moulds of medium & large size for different industries.

We are the only Heat Treatment Service Provider commercially in Pakistan with state of the art Vacuum Hardening & Nitriding Furnaces. The Reverse Engineering Facility is equipped with state of the art Scanner and CMM that enables us to redesign from the physical part with precision. Moreover we are pioneer to introduce 3D Scanning in Quality & Inspection.

In a nutshell, KTDMC is an Institute where you will be learning in an Industrial environment and at the same time will be able to see, on daily basis, the application of your studies.

Choosing an Institute

Choosing an institute is one of the most important decisions you will have to make, and it is one that will affect you for the rest of your life. KTDMC is an institute to provide your academic and social base for your time here. So how then do you choose an institute? Although all institutes work on the same lines, they vary in age and traditions, in size, subjects offered, situation general atmosphere, study methods you will need to take all these into account and we try to help you by giving you a flavor of life in KTDMC in the pages of this prospectus. More detailed information can be found in the relevant section of our Institute website: www.ktdmc.com



Board of Directors

KTDMC is an Institute which is Proposed, Initiated and Directed by the Industry.

Our Directors Include:

INDUSTRY



Mr. Tauqeer Dawood

Director
Dawood Engineering Limited



MILLAT TRACTORS LIMITED

Syed Mohammad Irfan Aqeel

CEO, Millat Tractor Limited
Lahore



Mr. Suhail P. Ahmed

Vice Chairman
House of Habib
Automotive Division



Syed Javid Ashraf

CEO - KTDMC,
(Former CEO Bolan Casting Ltd.)



TOYOTA
INDUS MOTOR COMPANY LTD.



DAIHATSU

Mr. M. Ilyas Suri

Advisor to Chairman & Board Member
Indus Motor Co. Ltd.



Engr. M.A. Jabbar

CEO
Qaim Automotive
Manufacturing (Pvt) Ltd



ACADEMIA



Dr. Muzaffar Mehmood

Head Mechatronics Department, PAF-KIET
(Former Pro Vice Chancellor, NED University
of Engineering & Technology)



GOVERNMENT



TUSDEC

Mr. Basit Maqsood Abbasi

CEO, Technology Upgradation &
Skill Development Council (TUSDEC)



PIDC

Mr. Khalid Mehmood Chadda

Chief Executive
Pakistan Industrial Development Corporation



Government of Pakistan
Ministry of Industries & Production

Joint Secretary (IID)
Ministry of Industries & Production



Government of Pakistan
Ministry of Science & Technologies

Secretary
Ministry of Science & Technologies



Government of Pakistan
Ministry of Finance Division

Secretary
Finance Division

Teaching Factory Environment

Reverse Engineering

CNC Machine

An accepted hallmark of KTDMC is its unique Teaching Factory Concept. This innovative training model has won acclaim from industries and academics, both locally and internationally.

The Teaching Factory addresses the hitherto un-met challenge commonly faced by institutions in trying to emulate a real world environment within a typical institutional setting. An important and integral component of the Teaching Factory Concept is the industry project work in which staff and students work closely as a team on real-life industry problems with cost, quality, reliability and deadline constraints, and often requiring multi-disciplinary capabilities residing in different schools.

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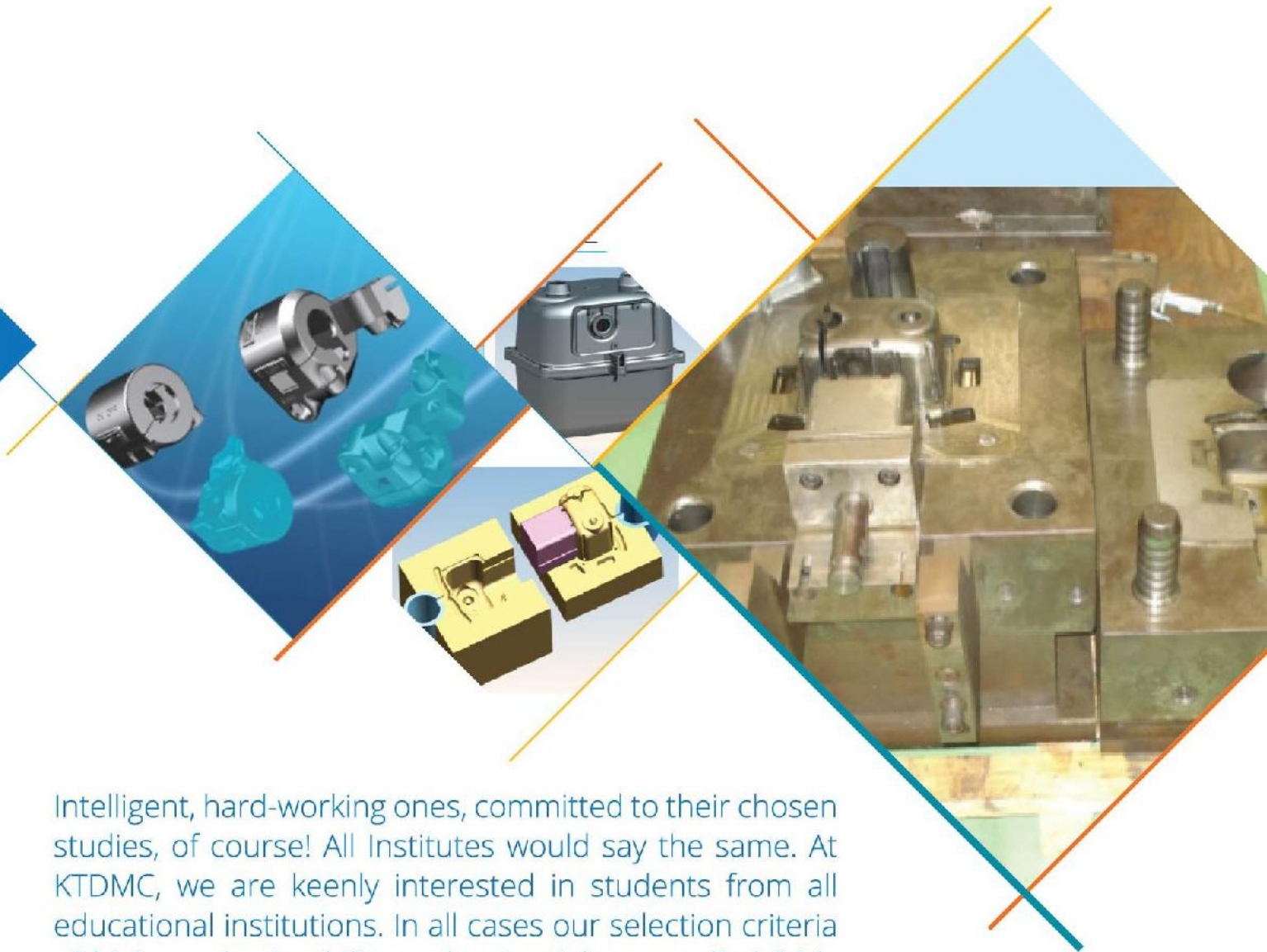
CMM Machine



The **Teaching Factory** is more than just a pedagogic approach that benefits student learning alone. It represents a total systematic approach that releases the latent synergy between a numbers of inter-related key success factors. When correctly implemented, it creates a powerful effect not only on the quality of teaching and learning, but also equally importantly, on the attitude and mindset of staff and students. In KTDMC, this positive self-reinforcing systematic interaction has contributed greatly to the creation of an environment of teamwork, innovation, strong linkage with industry, and a strong focus on capability development. It has also been a key contributor in shaping of the unique KTDMC culture and spirit, which is an important prerequisite for the successful implementation of the borderless schools concept. A chinese proverb explains all this in a simple way as follows:

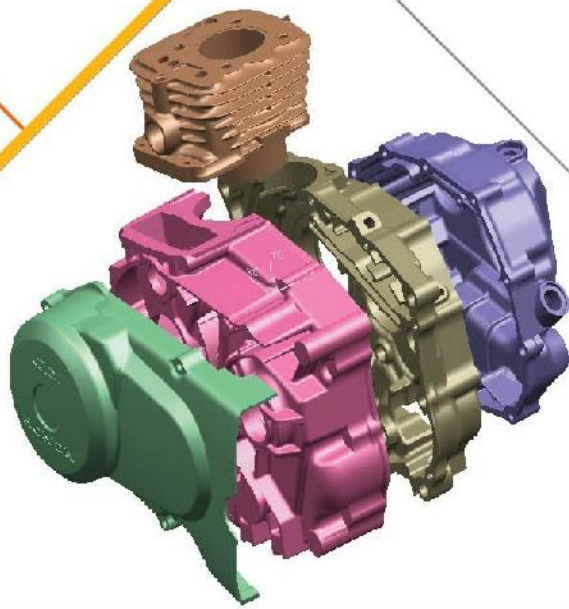
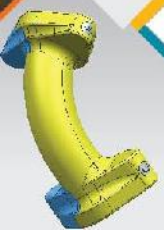
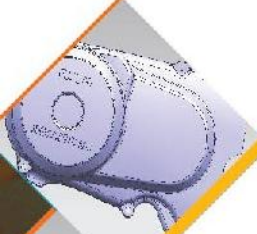
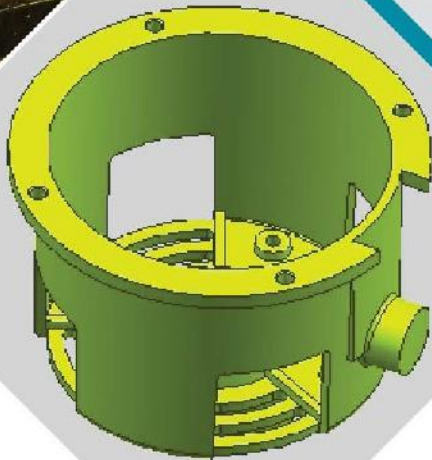
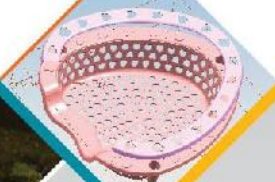
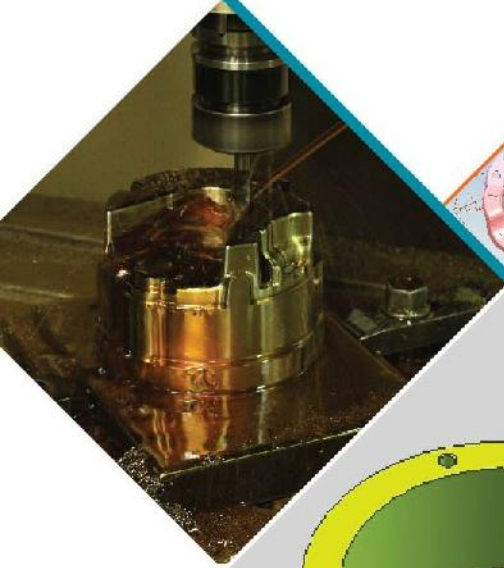
“I hear & I forget
I see & I remember
I do & I understand”

What sort of students are we looking for?



Intelligent, hard-working ones, committed to their chosen studies, of course! All Institutes would say the same. At KTDMC, we are keenly interested in students from all educational institutions. In all cases our selection criteria of high academic ability and potential are applied fairly and without discrimination. We are committed to offering equal opportunity to people of all educational, social, ethnic and cultural backgrounds, transparently on open merit basis.





Your life at KTDMC

Much can be learnt from lectures and in laboratories, and even more from your own reading and discussions with your contemporaries, but the time spent in tutorials with one person who has an overall responsibility for you and your development is what makes us special. Whereas the Institute provides the lectures, some classes and laboratory facilities as well, the Institute organizes the tutorial system that is at the heart of KTDMC's teaching.

Typically, as a student, you will find yourself, perhaps with one other person, meeting for at least one weekly session with your tutor to discuss work which you have prepared. This is, of course, demanding – you can't get away with ideas that have not been thought through – but it is also highly stimulating to discuss and share ideas with a tutor who is an expert in that field. It also means that your tutorials can be adapted to your particular enthusiasms and abilities.





Library:

KTDMC students have 08 hours access throughout the year to the institute's own well-stocked and well-equipped library, a light and airy building with network connections. There are books which are recommended on diploma reading lists, are bought as a matter of course, and popular texts on relevant diploma taught courses may also be obtained. Suggestions for extra acquisitions are welcomed, and the experienced and approachable librarian can often meet urgent requests for new books.



Your life at KTDMC

Computer Labs:

Computer labs at KTDMC are equipped with latest computers & LCD Monitors for CAD/CAM/CAE softwares where students undertake their designing classes and practice sessions. Data base folder is accessible to all students for saving & retrieving their assignments through fast networking system. Latest CAD/CAM/CAE Softwares including CATIA, Unigraphics, Pro-E are installed in the Lab which are continuously updated according to the requirements and market trends.

Sports

There are teams in most sports for people of any ability level. Sports activities has been planned in an academic calendar and prizes are awarded accordingly to different houses. The flag of winner house rises above the other flags and it remains higher till the house holds the title.



Food & Drink

The essentials of life are well taken care of at KTDMC. All students can eat their meals in the Institute, and most want to do so. Students can bring their meals from home or can avail our cafeteria facility.



Your life at KTDMC

Workshop

In KTDMC, we have a modern workshop facility which supports the teaching and research activities of the institute. The primary function in this workshop is to manufacture engineering components from student/staff designs.

Equipment in our workshop include CNC vertical machining centres, Lathe, EDM, with full CAD/CAM designing facilities, manual milling and turning, welding, spark erosion, surface grinding, metrology (CMM) equipment and general fabrication facilities.

The workshop supports teaching activities in the school by providing hand on experience of machining and other manufacturing processes by fabricating their assignments and projects.

The students are able to witness industrial use of all the facility side by side with their training assignments, thus inculcating industrial behaviour that will strongly benefit them in their employment.

Student SUPPORT Services



1. Orientation for new entrants:

During the first week in KTDMC, we offer a comprehensive orientation program to new entrants. The program includes general orientation meetings, introduction to different departments in the factory area of KTDMC, information regarding courses, books, uniforms, tools sets, safety shoes, personal protective equipments etc.

2. Peer monitoring Programme:

From the moment you arrive in Institute right the way through to your end of year exams, the Student 2 Student (S2S) peer mentoring programme is here at KTDMC to make sure your first year is fun, engaging and a great foundation for the rest of your time in KTDMC. You'll meet your S2S mentors during Orientation Week and they will make sure that you know other people in your class before your classes even start. They will keep in regular touch with you throughout your first year. They will also give you useful information about your course and what to look out for. Mentors are students including College captain, deputy college captain and house captains, who have been here through the first year and know exactly what it feels like, so you never have to worry about asking them a question or talking to them about anything that's worrying you.

3. Health Service:

First Aid Boxes are always available and maintained at KTDMC to heal minor health issues. In case of an emergency, the bruised one can be rushed to a nearby hospital.

4. Support for students placement:

KTDMC strongly believes on Industrial Academia Linkage. For this we have strong ties with relevant Industry and our Industrial Liaison Department maintain the requirements that often comes from Industries. Our Academic department work closely with Industrial Liaison department to nourish the students in accordance with industrial requirements. KTDMC specially focuses the last three months of passing out D.A.E. students to ripe the focuses attitude and skill developed in a student during his three year studies at KTDMC.

Happy Alumni Students

"Assalam O Alaikum;

I am Ameer hamza, an ex KTDMCian. I had done specialized diploma from KTDMC in 2009. Now I am working as designer in multinational company here in Dubai. I am deputed on the project of re-construction of Holy Kaaba, thus fascinating my spiritual feelings as well".

Ameer Hamza

Design Engineer
Premier Composite Technologies
United Arab Emirates (UAE)



Atlas Honda Limited Award of Excellence

M/S. Karachi Tools, Dies & Moulds Centre

in recognition of your outstanding performance

2nd National Vendor Conference ` 2011

held at Sheikhpura Plant
on March 3rd, 2011

Saquib H. Shirazi
Chief Executive Officer

What Industries are saying about **KTDMC**

"Today, I along
with my team mates
are working on
CATIA Software.
Thanks to KTDMC
for enabling us to do so".



Mr. Ahsan Jameel
Manager Development
Procon Engineering Ltd.

"We found
KTDMC students
more familiar with
CAD/CAM &
Machining".



Mr. Adnan Ahmed
Sr. Manager Technology
& Development Division
Omer Jibran Limited

"Trainings
conducted
in an applied
environment as
KTDMC is found
to be very beneficial
for our employees"



SUZUKI

Mr. Shahid Ali Khan
Pak Suzuki Motor Company Limited
Staff General Manager
Product Localization Division



Frequently asked Questions

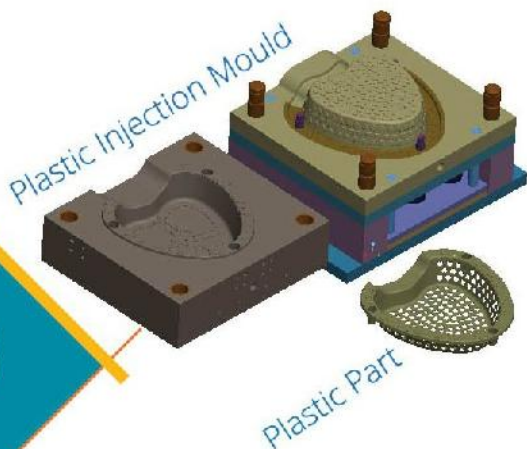
What subjects are studied at KTDMC?

KTDMC accepts matriculate students from all over Pakistan to register for three year **DAE in Dies & Moulds Manufacturing Technology**.

The program is affiliated with Sindh Board of Technical Education (SBTE).

Currently, there are 50 seats each year for DAE applicants. Selection criteria is merit based as follows:

Entry Test >> Merit List >> Interviews >> Final Merit List.



Scheme of Studies is as Follows:

1st Year Course Title	Hours	
	Th	Pr
Islamiat/Pakistan Studies	1	0
Technical English	2	0
Applied Mathematics-I	3	0
Applied Physics	2	3
Technical Drawing & CAD	1	6
Bench Work(Metal & Wood Works)	2	12
Applied Chemistry	1	3
Introduction to Dies & Moulds	1	0
Applied Electricity & Electronics	1	3
TOTAL	14	27
2nd Year Course Title	Hours	
	Th	Pr
Islamiat/Pakistan Studies	1	0
Applied Mathematics -II	3	0
Business Management & Industrial Economics	1	0
Metrology	1	3
Machine Design & Drawing	2	3
Die Design - I	1	6
Applied Mechanics	1	3
Material Science & Heat Treatment	1	3
Mould Design - I	2	6
Machine Shop Practices(Lathe,Milling,Drilling, SurfaceGrinding & Welding)	2	3
TOTAL	15	27
3rd Year Course Title	Hours	
	Th	Pr
Islamiat/Pakistan Studies	1	0
Industrial Management & Human Relations	1	0
Die Design - II	2	6
CNC Machines & CAM	2	3
Industrial Quality Control	2	0
Mould Design - II	2	6
Jigs & Fixture Design	2	3
Industrial Engineering	1	3
Compression & Rubber Mould	1	0
Die & Mould Maintenance	2	3
TOTAL	16	24

What does it all cost?

KTDMC charges very minimal fee compare to its actual cost incurred on each students.

The Institute also arrange financial aids to needy students. Students securing good scores in SBTE Examinations are also awarded scholarships.

For more details and fee structure visit our website: www.ktdmc.com



How do I find out more?

We encourage all to witness this great center them selves. An Open Day session is arranged where you will have the chance to meet current students, instructors and see the environment for yourself.

The institute Admissions Information Centre: It is usually open 9 am – 5 pm, Monday – Saturday (exculding every month's first saturday with no need for an appointment and has information concerning both diploma & short courses.

Students can email at trainings@ktdmc.com to discuss their queries.

For further information, see the Institute website: www.ktdmc.com



Karachi Tools, Dies & Moulds Centre

Progress Through Knowledge & Skills

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E: info@ktdmc.com