



**Powder Metallurgical Association of India**

[www.pmai.in](http://www.pmai.in)

## **PM PRODUCTS – TOOL DESIGN PROCESS**

**8<sup>th</sup>- 10<sup>th</sup> NOV 22**



**COEP Tech**



The Powder Metallurgical Association of India, an association of Indian and overseas PM professionals from the industry, research laboratories and academia is conducting a three-day course on Tool Design Process for PM Products in offline mode at Dept. of Metallurgy and Materials Science, COEP Technological University (Unitary Public University of Govt. of Maharashtra) Pune-411 005. The course presents in-depth overview of compaction process and design of tools for new and prospective entrants to the PM product design and existing PM components manufacturers.

### **PROGRAM SCHEDULE**

Time	Day 1 (8 <sup>th</sup> NOV 22)
9:00-10:00	Basics of powder Metallurgy & Compaction
10:00-10:15	Tea Break
10:15-11:00	Basics of Sintering & Secondary Operations
11:00-13.15	Compaction – Fundamentals
13.15- 14:00	Lunch Break
14:00- 15:30	Compaction – Interrelation between Product & Tool Design
15:30- 15:45	Tea Break
15:45-16:30	Compaction – Interrelation between Product & Tool Design (Contd..)
16:30-17:30	Exercises
Time	Day 2 (9 <sup>th</sup> NOV 22)
9:00-11:00	Tool Friction & M/Q Ratio
11:00-11:15	Tea Break
11:15-13:15	Elasticity of tools & product quality
13.15- 14:00	Lunch Break
14:00- 15:00	Effect of magnetism on pressing process
15:00- 15:15	Tea Break
15:15- 16:00	The adapter as link between tool and press
16:00-17:30	Exercises

Time	Day 3 (10 <sup>th</sup> NOV 22)
9:00-11:00	Tool Design Process – Product to tool
11:00-11:15	Tea Break
11:15-13:15	Tool Design Exercise
13.15- 14:00	Lunch Break
14:00- 15:00	Tool Design Process – General Assembly
15:00- 15:15	Tea Break
15:15- 16:00	Tool Design Exercise
16:00-17:30	Final Question & Answers / Concluding Remarks

### **Registration Fees: 5000/-**

Registration details Name, Designation, Organization, Phone, Email along with Proforma tax invoice of payment details must send to [director@pmai.in](mailto:director@pmai.in)

*All communication may address to*

[director@pmai.in](mailto:director@pmai.in), Unit 401, K Square, P.K. Shroof Road, Near Union Bank, Baner, Pune - 411045, India

### **About Speaker: Sanjay Rastogi**

A 1987 graduate in mechanical engineer from NIT Allahabad (U.P). He has more than 35 years of experience in automotive industry out of which 30 years in PM. He has worked with Indian and Multinational companies like Sundaram Fasteners, Federal Mogul, GKN Sinter Metals, covering areas of Product Development, Manufacturing Engineering, Quality Management, Tool Manufacturing, Operations, Sales, and Business Development. In his last role at GKN as Director Engineering was responsible for engineering function including tool manufacturing for Indian and South African Operations.

