

<b>PROFESSOR'S NAME</b>	Prof. Sounak Kumar Choudhary
<b>DEPARTMENT</b>	Department of Mechanical Engineering
<b>INSTITUTE</b>	Indian Institute Of Technology Kanpur
<b>COURSE OUTLINE</b>	The course will basically deal with the following topics: Introduction, Detroit type automation, Analysis of automated flow lines, Automated assembly systems & Orientation of parts in automatic assembly.

## COURSE DETAILS

S. No	Module ID/ Lecture ID	Lecture Title/Topic
1	M1L1	Introduction to Manufacturing Automation
2	M1L2	Various aspects of Manufacturing Automation
3	M1L3	Part Transfer Mechanisms
4	M1L4	Automated Flow Lines
5	M1L5	Analysis of Automated Flow Lines
6	M2L6	Vibratory Bowl Feeder
7	M2L7	Analysis of Vibratory Bowl Feeder
8	M2L8	Reciprocating Tube Hopper Feeder
9	M2L9	Centreboard Hopper Feeder and its analysis
10	M2L10	Reciprocating fork and External Gate Hopper Feeders
11	M3L11	Rotary Disc Feeder and Centrifugal Hopper Feeder
12	M3L12	Bladed Wheel and Tumbling Barrel Hopper Feeders

<b>13</b>	M3L13	Rotary Centreboard and Magnetic Feeders
<b>14</b>	M3L14	Part Orienting Devices
<b>15</b>	M3L15	Feed Tracks and their analysis
<b>16</b>	M4L16	Powered Feed Track and Escapements
<b>17</b>	M4L17	Various Escapements and Part Placing Mechanisms
<b>18</b>	M4L18	Design for Automatic Assembly
<b>19</b>	M4L19	Performance and Economics of Assembly Systems
<b>20</b>	M4L20	Performance of Indexing and Free Transfer Machines