

## Allegato 2 - Scheda BIP

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<b>Personale tecnico amministrativo di supporto</b>	Francesca Gambetta <a href="mailto:Francesca.gambetta@unimore.it">Francesca.gambetta@unimore.it</a>
<b>Dipartimento</b>	Dipartimento di Ingegneria Enzo Ferrari
<b>Corso/i di Studio ammessi a partecipare</b>	Studenti iscritti alle lauree magistrali: Advanced Automotive Engineering Ingegneria dei Materiali Ingegneria Meccanica Ingegneria del Veicolo Sustainable Industrial Engineering
<b>Titolo del BIP</b>	3M – Model Manufacturing Methods Advanced Manufacturing Technologies, Additive Manufacturing & Reverse Engineering
<b>Atenei che prendono parte al programma</b>	<i>Partner Coordinatore</i> Kielce University of technology, Kielce, Poland
<b>BIP ID</b>	2025-1-PL01-KA131-HED-000311781-1
<b>Numero di posti disponibili per gli studenti UNIMORE</b>	5
<b>Periodo di svolgimento mobilità fisica - attività in presenza: data inizio e data fine</b>	<b>May 25, 2026 – May 29, 2026</b>
<b>Mobilità fisica - attività in presenza: durata:</b>	5gg
<b>Periodo di svolgimento componente virtuale - tempistiche rispetto alla componente fisica.</b>	Dopo la parte in presenza
<b>Componente virtuale - durata: ore o giorni</b>	2gg
<b>Componente virtuale - date e descrizione:</b>	<b>June 8-9, 2026</b>
<b>Paese in cui si svolgerà il BIP - mobilità in presenza</b>	Polonia
<b>Città di svolgimento del BIP</b>	Kielce
<b>Lingua di svolgimento e requisiti linguistici:</b>	inglese B2: sufficiente esame di idoneità presente in carriera - se svolto presso altro Ateneo allegare autocertificazione . La documentazione non presente in carriera deve essere allegata alla candidatura

<b>Tipologia di attività didattica prevista</b> (es. <i>Laboratori, visite, etc</i> )	<ul style="list-style-type: none"> <li>• specialized lectures,</li> <li>• laboratory exercises,</li> <li>• practical exercises on CNC machine tools,</li> <li>• design work in teams,</li> <li>• visit to an industrial plant</li> </ul>
<b>Numero di crediti ECTS previsti dal BIP (minimo 3)</b>	3 CFU
<b>Numero di crediti ECTS che verranno riconosciuti</b>	3 CFU
<b>Descrizione del programma sia per le attività in presenza che per quelle on-line.</b>	<p>An introduction to modern manufacturing technologies, such as advanced CNC machining techniques, CAD/CAM design, 3D printing, and reverse engineering, forms the foundation of the modern manufacturing industry.</p> <p>Practical sessions related to CNC programming, CAM system operation, preparing models for 3D printing, and the basics of scanning and geometry reconstruction.</p> <p><b><u>Si allega programma</u></b></p>
<b>Presenza docente accompagnatore:</b>	<i>NO</i>
<b>Commissione di selezione/ Docente Referente</b>	Isabella Lancellotti Francesca Gambetta
<b>Criteri di selezione</b>	<ul style="list-style-type: none"> <li>• <i>carriera accademica da Esse3/autocertificazione ;</i></li> <li>• <i>voto di laurea triennale</i></li> <li>• <i>media ponderata;</i></li> <li>• <i>valutazione della lettera motivazionale;</i></li> <li>• <i>competenze linguistiche;</i></li> <li>• <i>altre esperienze di mobilità.</i></li> </ul>

**Documenti obbligatori richiesti da allegare in candidatura su Esse3:**

- *lettera motivazionale*
- *CV*
- *certificazioni linguistiche o esami di inglese superati*

**Eventuali ulteriori requisiti** *NO*

**Eventuali ulteriori informazioni** *NO*



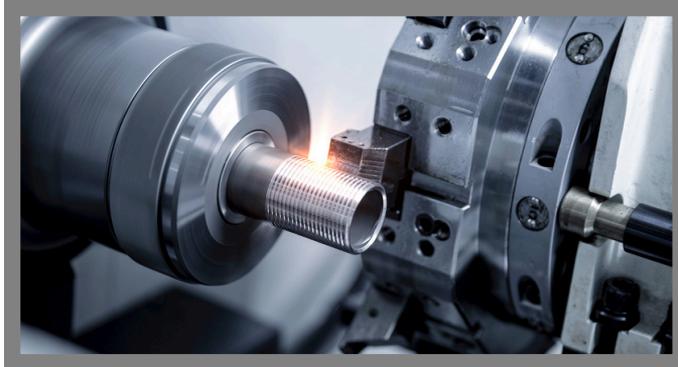
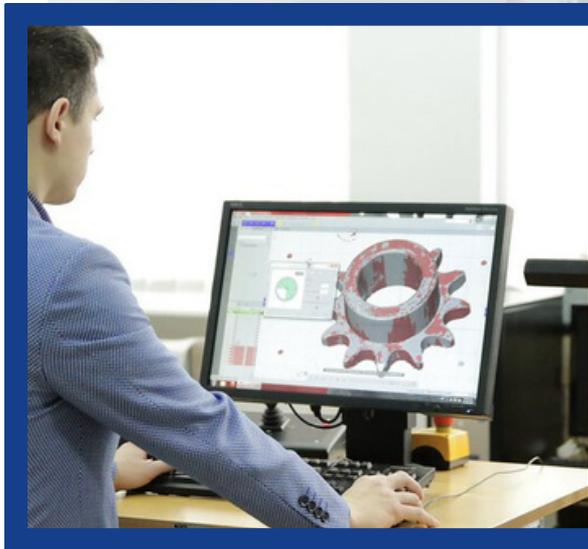
Kielce University  
of Technology

Blended Intensive Program (BIP)

# 3M

## Model Manufacturing Methods

*Advanced Manufacturing Technologies,  
Additive Manufacturing  
& Reverse Engineering*



ON-SITE PROGRAM:  
**25 - 29 OF MAY 2026**  
VIRTUAL PROGRAM:  
**8 - 9 OF JUNE 2026**



**WMiBM**



Blended Intensive Program (BIP)

## **3M – Model Manufacturing Methods**

**Advanced Manufacturing Technologies,  
Additive Manufacturing & Reverse Engineering**

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### **Term**

On-site program: **May 25, 2026 – May 29, 2026**

Virtual program: **June 8-9, 2026**

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### **Brief program description**

An introduction to modern manufacturing technologies, such as advanced CNC machining techniques, CAD/CAM design, 3D printing, and reverse engineering, forms the foundation of the modern manufacturing industry.

The Blended Intensive Program "Advanced Manufacturing Technologies: CNC, Additive Manufacturing & Reverse Engineering" enables participants to acquire theoretical knowledge and practical skills in the design and manufacture of machine components using modern production technologies.

The program is implemented in a blended format, combining a virtual component with intensive physical mobility. It includes specialized lectures, laboratory exercises, and practical sessions related to CNC programming, CAM system operation, preparing models for 3D printing, and the basics of scanning and geometry reconstruction. An integral part of the program is a visit to a production facility with advanced CNC machinery – the Kielce Pump Factory.

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## Program Structure

### Onsite Component

- Intensive laboratory and practical classes,
- Demonstration classes in a CNC machine tool laboratory,
- Preparation and implementation of 3D prints,
- Basics of 3D scanning and geometry reconstruction,
- Study visit to a production facility,
- Implementation and presentation of a design project.

### Virtual Component - Online Lectures

- Introduction to CNC Programming,
- Additive Manufacturing and Reverse Engineering,

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### Topic Coverage

- Machining technologies on CNC machine tools,
- Programming numerically controlled machine tools using CAM systems,
- Designing and preparing models for 3D printing,
- Implementation of additive printing,
- Basics of reverse engineering and 3D scanning.

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### Program Objectives

- Gaining knowledge of innovative manufacturing technologies,
- Acquiring practical skills in operating and programming CNC machine tools,
- Preparing 3D models and machining technologies in CAD/CAM systems,
- Familiarizing yourself with 3D printing technologies,
- Applying reverse engineering in industrial practice.

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## Learning Outcomes

### After completing the program, the participant will:

- Know basic and advanced CNC machining and 3D printing technologies,
- is able to prepare a 3D model for CNC machining or additive manufacturing,
- is able to use CAD/CAM systems in production processes,
- understands the basics of reverse engineering and geometry digitization,
- is able to work on an engineering project in a design team.

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## Teaching & Learning Methods

- specialized lectures,
- laboratory exercises,
- practical exercises on CNC machine tools,
- design work in teams,
- visit to an industrial plant.

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## Assessment Methods

- active participation in classes,
- completion of a design task,
- presentation of design results.

Passing all elements is the basis for awarding ECTS credits.

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## Practical Elements

The program includes:

- laboratories on the operation of CAM systems,
- demonstrations and exercises on CNC machine tools,
- 3D printing and 3D scanning.

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### Lecturers and Invited Experts

Lecturers and invited experts in CNC technology and 3D printing, together with academic staff from the host and partner universities, will be announced shortly.

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### Target group

- undergraduate students,
- graduate students,
- PhD students,
- young scientists.

Minimum English language level: B2

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### Organizational information:

- Number of participants: minimum 10 (maximum 20),
- Number of ECTS credits: 3,
- Workload: 40 hours,
- Field trip / production plant: Kielecka Fabryka Pomp (KFP),
- Cultural and social events
- Free lunches and coffee breaks
- Accommodation in a student dormitory can be arranged upon request; the cost is covered by participants
- The detailed schedule will be communicated to participants
- Contacts: Erasmus+ administration [erasmus@tu.kielce.pl](mailto:erasmus@tu.kielce.pl)

Erasmus+ University Coordinator: [akasztelewicz@tu.kielce.pl](mailto:akasztelewicz@tu.kielce.pl)

Erasmus+ Mechanical Faculty Coordinator: [slipiec@tu.kielce.pl](mailto:slipiec@tu.kielce.pl)

3M BIP Coordinator: [sblasiak@tu.kielce.pl](mailto:sblasiak@tu.kielce.pl)

BIP web: <https://erasmus.tu.kielce.pl/en/blended-intensive-programme/>

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