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MEMORANDUM

ATTENTION Senate
FROM Jeff Derksen,
Chair of Senate Graduate Studies
Committee (SGSC)
RE: Course Change

DATE August 27, 2020

For information:

Acting under delegated authority at its meeting of July 7, 2020, SGSC approved the following curriculum items, effective **Summer 2021**:

Faculty of Applied Science

School of Mechatronic Systems Engineering

- 1) Course change (units, description, prerequisite): MSE 995

MEMORANDUM

Attention Dr. Jeff Derksen
Dean, Graduate Studies

Date June 29, 2020

From Dr. Parvaneh Saeedi
Faculty of Applied Science, Graduate Studies Committee

psaeedi@sfu.ca

Re: FAS- MSE Course change and new course proposals

Following the Pre-SGSC's meeting and the committee's feedback on our new program proposal the following items are forwarded to you by the faculty of Applied Sciences Graduate Studies Committee for approval. Please let me know if there is any additional info is required.

Course Change:

1. MSE 995 - Advanced Modeling and Prototyping

New courses:

1. ~~MSE 910 - Industrial IoT~~
2. ~~MSE 923 - Smart Factory I~~
3. ~~MSE 924 - Smart Factory II~~
4. ~~MSE 980 - Industry 4.0~~
5. ~~MSE 981 - Big Data Analytics~~

~~The new course overlap review is requested from all ADRs and the library resource check requests will be done by the school today.~~

Best Regards,



Parvaneh Saeedi,
Faculty of Applied Science, Graduate Studies Committee



FACULTY OF APPLIED SCIENCES
School of Mechatronic Systems Engineering

Central City Galleria 4, 4388
250-13450 102 Avenue,
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Edward J. Park, PhD, PEng
Professor & Director (*Interim*)
Associate Member, Faculty of Health Sciences

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MEMORANDUM

Date: June 26, 2020
To: Dr. Parvaneh Saeedi, Associate Dean, Research & Graduate Studies, Faculty of Applied Sciences
From: Dr. Ed Park, Acting Director, School of Mechatronic Systems Engineering
Re: Course modification for MSE 995

The School of Mechatronic Systems Engineering has approved the course modification for MSE 995.

Best regards,

A handwritten signature in black ink, appearing to read "Ed Park", with a long horizontal stroke extending to the right.

Ed Park

Graduate Course Change

Attach a separate document if more space is required.

Course Subject/Number MSE 995	Units 6	Effective Term and Year Summer 2021
Course Title Advanced Modeling and Prototyping		
Rationale for Change: This course was developed as a core requirement for the discontinued professional Master's program in Mechatronic Product Realization. Its content should be reduced to a regular 3-credit elective course so that it is in-line with the new Master of Engineering program in Smart Manufacturing and Systems (a.k.a.) Industry 4.0. This change in the number of units/contact hours is possible as students enrolled in the new program are expected to have the basic knowledge on the topics covered.		

Proposed Changes (Check all that apply)

☐ Course number
 ☒ Units*
 ☐ Title
 ☒ Description
 ☒ Prerequisite
 ☐ Other _____

Complete only the fields to be changed

FROM	TO
Course Subject/Number	Course Subject/Number
Units 6	Units* 3
Course Title	Course Title (max 100 characters)
Course Short Title	Course Short Title (max 30 characters)
Description Hands-on practice with solid modeling, machine shop, measuring, and rapid prototyping tools. Knowledge and skills in geometric modeling, engineering materials, geometric dimensioning and tolerancing, and quality control. Students gain understanding of the advantages and limitation of geometric modeling and machines tools, and know to utilize these tools for rapid product realization.	Description Hands-on practice with solid modeling, basic machine shop, measuring, and rapid prototyping tools. Knowledge and skills in geometric modeling, engineering materials, geometric dimensioning and tolerancing, and quality control. Students gain understanding of the process from product development to manufacturing.
Prerequisite Graduate standing in the Professional Master's program in Mechatronic Product Realization.	Prerequisite Graduate standing in the Master of Engineering program in Smart Manufacturing and Systems.
Other	Other

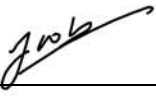
*Program requirements may need to be revised when course units are changed. Please review the calendar and submit any relevant program revisions resulting from this course change.

REMINDER: All course changes must be identified on a cover memo and confirmed as approved when submitted to FGSC and SGSC.

CONTACT PERSON

Department / School / Program MSE	Contact name Gary Wang	Contact email gary_wang@sfu.ca
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DEPARTMENTAL APPROVAL

Department Graduate Program Committee	Signature	Date
Department Chair Ed Park	Signature 	Date June 26, 2020

FACULTY APPROVAL

Faculty Graduate Studies Committee (FGSC) Parvaneh Saeedi	Signature 	Date June 29, 2020
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SENATE GRADUATE STUDIES COMMITTEE APPROVAL

Senate Graduate Studies Committee (SGSC) Jeff Derksen	Signature 	Date August 27, 2020
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ADMINISTRATIVE SECTION (for DGS office only)

Course Attribute: _____

Course Attribute Value: _____

Instruction Mode: _____

Attendance Type: _____

If different from regular units:

Academic Progress Units: _____

Financial Aid Progress Units: _____