

## 机械设计制造及其自动化专业教学计划

## Curriculum by semester for BUCT-UDM CCE Joint program in Mechanical Design, Manufacturing and Its Automation 2023 COHORT

学期/term	课程编号BUCT course code	课程名称BUCT course name	英文名称 course name in English	BUCT credit	总学时 /teaching hours	外方课程编号 UDM course code	UDM course name	外方学分 ECTS	UDM course year	课程来源 course from	教师来源 taught by
1st year autumn	MXII17202T	思想道德与法治	Ideology Morality and Law	2.0	32					BUCT	BUCT
	MXII19001P	思想道德与法治实践	the practice of Ideological morality and law	1.0	16					BUCT	BUCT
	MXII14401E	习近平新时代中国特色社会主义思想概论	An Introduction to Xi Jinping's Thought on Socialism with Chinese Characteristics for a New Era	3.0	48					BUCT	BUCT
	PHE19200P	军事技能	Military Skills Training	2.0	40					BUCT	BUCT
	PHE10200T	军事理论	Military Theory	2.0	36					BUCT	BUCT
	PHE10001T	体育（I）	Physical Education（I）	1.0	32					BUCT	BUCT
	CCE118204T	英语阅读（I）	English Reading（I）	2.0	32					BUCT	BUCT
	ENG11206T	英语听说（I）	Listening and Speaking（I）	2.0	32					BUCT	BUCT
	CCE18206T	基础写作（I）	English Writing（I）	2.0	32					BUCT	BUCT
	CCE18002T	英语口语（I）	Oral Communication（I）	1.0	96					BUCT	BUCT
	HSS18000T	大学生身心健康	Psychologically Healthy Education of University Students	1.0	18					BUCT	BUCT
	MEE11400T	工程制图	Graphics of Engineering	3.0	48	ENGR1055 /ENGR1080	Engineering Graphics I Engineering Graphics II	4.0		BUCT	BUCT
	MAT13904T	高等数学A（I）	Single variable calculus A (I)	5.5	88	MTH1410/M TH1420	Analytic Geometry and Calculus I / Analytic Geometry and Calculus II	6.0		BUCT	BUCT
	MEE39101P	应用软件实践	Practicum in Applied Software	1	1周					BUCT	BUCT
				<b>28.5</b>							
	CCE18207T	基础写作（II）	English Writing（II）	2.0	32					BUCT	BUCT
	CCE18004T	英语口语（II）	Oral Communication（II）	1.0	32					BUCT	BUCT
	CCE18205T	英语阅读（II）	English Reading（II）	2.0	32					BUCT	BUCT
	ENG11207T	英语听说(II)	Listening and Speaking（II）	2.0	32					BUCT	BUCT

1st year spring	MXI12400E	中国近现代史纲要	Outline of Modern and Contemporary Chinese History	3.0	48					BUCT	BUCT
	MAT13905T	高等数学A (II)	Multivariable Calculus A (II)	5.5	88	MTH1420/MTH2410	Analytic Geometry and Calculus II/ Analytic Geometry and Calculus III	6.0		BUCT	BUCT
	PHY11600T	普通物理(I)	General Physics (I)	4.0	64	PHY1600	General Physics I	3.0		BUCT	BUCT
	PHE10002T	体育 (II)	Physical Education (II)	1.0	32					BUCT	BUCT
	MAT11501T	线性代数A	Linear Algebra A	3.5	56	MTH3720	Linear Algebra	2.0		BUCT	BUCT
	CCE14002P	机器人workshop	Robotics Workshop	1.0	16					BUCT	BUCT
	PHY11000L	大学物理实验 (I)	Experiment of General Physics (I)	1.0	30	PHY1610	General Physics Laboratory I	1.0		BUCT	BUCT
	MEE35200E	工程材料	Engineering Materials	2.0	32	ENGR3170		3.0		BUCT	BUCT
	MXI10011T	国家安全教育	National Security Education	1.0	16					BUCT	online
	MXI42H01E	形势与政策 (I)	Political Situation and Policies (I)	0.5	32					BUCT	BUCT
	CSE24101C	Python语言程序设计	Python Programming Language	1.5	32	CSSE1712	Fundamentals of Computer	3.0		BUCT	BUCT
1st year summer	CCE10400T	工程伦理	The Politics and Ethics of Engineering	3.0	40	ENGR1000	The Politics and Ethics of Engineering	3.0		UDM	UDM
	CCE18401T	演讲基础	Fundamentals of Speech	3.0	40	CST1010	Fundamentals of Speech	3.0		UDM	UDM
	CCE18400T	学术写作	Academic Writing	3.0	40	ENL1310	Academic Writing	3.0		UDM	UDM
				40.0							
2nd year autumn	MXI21400E	马克思主义基本原理	The Basic Principles of Marxism	3.0	48					BUCT	BUCT
	CCE28201T	进阶英语	Advanced English	2.0	32					BUCT	BUCT
	MAT11501T	线性代数A	Linear Algebra A	3.5	56					BUCT	BUCT
	PHY21601T	普通物理 (II)	General Physics (II)	4.0	64	PHY1620	General Physics II	3.0		BUCT	BUCT
	PHY11001L	大学物理实验(II)	Experiment of General Physics (II)	1.0	30	PHY1630	General Physics Laboratory II	1.0		BUCT	BUCT
	CCE21400T	概率论与数理统计	Probability and Statistics	3.0	48	MTH4270	Applied Probability and Statistics	3.0		UDM	UDM
	MAT23200T	复变函数与积分变换	Complex Variables and Integral Transformation	2	32					BUCT	BUCT
	CCE24401T	静力学	Statics	3	40		Statics, Dynamics	3.0		UDM	BUCT+UDM
	CCE25404T	电气工程基础(I)	Fundamentals of Electrical and Computer Engineering(I)	3.0	40	ELEE2500	Fundamentals of Electrical and Computer Engineering (I)	3.0		UDM	BUCT+UDM

	CCE25002L	电气工程基础实验(I)	Fundamentals of Electrical and Computer Engineering Laboratory(I)	1.0	48	ELEE2510	Fundamentals of Electrical and Computer Engineering Laboratory (I)	1.0		UDM	BUCT+UDM
	MEE29201P	工程训练	Engineering Training	2.0	2周					BUCT	BUCT
	PHE20000T	体育 (III)	Physical Education (III)	1.0	32					BUCT	BUCT
				<b>28.5</b>							
2nd year spring	PHE20001T	体育 (IV)	Physical Education (IV)	1.0	32					BUCT	BUCT
	MXI13401T	毛泽东思想和中国特色社会主义理论体系概论	Introduction to Mao Zedong Thought and the Chinese Characteristic Socialism Theory System	3.0	48					BUCT	BUCT
	CCE25405T	电气工程基础 (II)	Fundamentals of Electrical and Computer Engineering (II)	3.0	40	ELEE2520	Fundamentals of Electrical and Computer Engineering (II)	3.0		UDM	BUCT+UDM
	CCE25403T	数字逻辑电路(I)	Digital Logic Circuits (I)	3.0	40	ELEE2640	Digital Logic Circuits	3.0		UDM	BUCT+UDM
	MEE35202T	机械制造技术	Machinery Manufacturing Technology	2.0	32					BUCT	BUCT
	MEE22401E	材料力学	Mechanics of Materials	3.0	48	ENGR3260	Mechanics of Materials	3.0		BUCT	BUCT
	CSE24402C	程序设计I	Programming I	3.0	64	CSSE1712	Introduction to Programming (I)	3.0		BUCT	BUCT
	EEE33400C	信号与系统	Signals and Systems	3.0	48	ELEE3880	Signal and system	3.0		BUCT	BUCT
	CCE25003L	电气工程基础实验 (II)	Fundamentals of Electrical and Computer Engineering Laboratory (II)	1.0	48	ELEE2530	Fundamentals of Electrical and Computer Engineering Laboratory (II)	1.0		UDM	BUCT+UDM
	CCE25000L	数字逻辑电路实验(I)	Digital Logic Circuits Laboratory (I)	1.0	48	ELEE2650	Digital Logic Circuits Lab	1.0		UDM	BUCT+UDM
	MXI42H02E	形势与政策 (II)	Political Situation and Policy (II)	0.5	32					BUCT	BUCT
2nd year summer	CCE18404T	比较经济学	Comparative Economics	3.0	40	TBD	Comparative Economics	3.0		UDM	UDM
	CCE11401C	Matlab基础及应用	Foundamentals and applications of Matlab	3.0	40	TBD	Intro to Comparative Political Science	3.0		UDM	UDM
	CCE18402E	哲学	Intro to Philosophy	3	40	PHL1000	Intro to Philosophy	3.0		UDM	UDM
				<b>32.5</b>							
3rd year autumn	MXI42H03E	形势与政策 (III)	Political Situation & Policies (III)	0	32					BUCT	BUCT
	CSE24313C	程序设计II	Programming II	2.5	48	CSSE1722	Introduction to Programming (II)	3.0		BUCT	BUCT
	EEE34401T	自动控制原理	Automatic Control Theory	3	48	ENGR4220	Automatic Control Theory	3.0		BUCT	BUCT
	MEE24401T	机械设计基础	Basic Theory of Machine Design	3	48	MENG3920	Machine design	3.0		BUCT	BUCT
	MEE22206T	流体力学及传热学基础	Fundamentals of Fluid Mechanics and Heat Transfer	2.5	40					BUCT	BUCT

	BIO29301P	认识实习	Practicum	1.0	1周					BUCT	BUCT
	MEE48203E	可编程控制器原理及应用	Programmable Logic Controllers: Principles and Applications	2.0	32					BUCT	BUCT
				<b>12.0</b>							
3rd year spring	MEE49200E	液压与气压传动	Hydraulic and Atmospheric Pressure Transmission	2.0	32					BUCT	BUCT
	CCE25400T	单片机入门	Introduction to Microcontrollers	3.0	40	ELEE3860	Introduction to Microcontrollers	<b>3.0</b>		UDM	BUCT+UDM
	CCE25001L	单片机入门实验	Introduction to Microcontrollers Laboratory	1.0	48	ELEE3870	Introduction to Microcontrollers Laboratory	<b>1.0</b>		UDM	BUCT+UDM
	MEE39400P	机械设计基础课程设计	Project Design of Mechanism Basis	3.0	3					BUCT	BUCT
	EEE47202C	人工智能及应用	Artificial Intelligence: Principles and Applications	2.0	32					BUCT	BUCT
	MXI42H03E	形势与政策 (III)	Political Situation and Policy (III)	0.5	32					BUCT	BUCT
3rd year summer	MEE39201P	液压与气压传动课程设计	Course Design of Hydraulic and Pneumatic Transmission	<b>2.0</b>	2					BUCT	BUCT
				<b>13.5</b>							
4th year	MEE38500E	机电传动控制	Electromechanical Actuation Control I	<b>3.5</b>	56					BUCT	BUCT
	MEE39301P	生产实习	Engineering Practice	<b>4.0</b>	4					BUCT	BUCT
	MEE49602P	综合课程设计	Integrated Course Project	<b>4.0</b>	4					BUCT	BUCT
	MXI42H04E	形势与政策 (IV)	political situation & policies(IV))	<b>0.0</b>	32					BUCT	BUCT
	MEE49A01P	毕业环节: 毕业设计(论文)	Bachelor's Thesis	<b>8.0</b>	24周					BUCT	BUCT
	MXI42H04E	形势与政策 (IV)	political situation & policies(IV))	<b>0.5</b>	32					BUCT	BUCT
				<b>20.0</b>							
专业选修课	ROT25201T	传感器与机器人感知技术	The Technology of Sensor and Robot perceptions	2.0	32					BUCT	BUCT
	ROT32401E	机器人运动控制	Motion Control of Robotics	3	48					BUCT	BUCT
	ROT43201T	移动机器人定位与导航	Mobile Robot Localization and Navigation	2.0	32					BUCT	BUCT
	CSE36300E	嵌入式系统设计	Embedded System Design	2.5	40					BUCT	BUCT
				<b>4.0</b>							
	MXI10007T	社会主义道路探索史	History of Socialist road Exploration	<b>1.0</b>	16					BUCT	BUCT

“四史”模块	MXI10008T	社会主义五百年	Five Hundred Years of Socialism	1.0	16					BUCT	BUCT
	MXI10009T	中国共产党的光辉历程和伟大成就	The Glorious Course and Great Achievements of the Communist Party of China	1.0	16					BUCT	BUCT
	MXI10010T	中国共产党人的精神谱系	The Genealogy of Spirits of the Communist Party of China	1.0	16					BUCT	BUCT
	MXI10006T	中国共产党与改革开放	the Communist Party of China and the Reform and Opening up	1.0	16					BUCT	BUCT
素质教育	HSS10001E	大学生就业与创业指导	College students employment and entrepreneurship guidance	1.0						BUCT	BUCT
	HSS39001P	劳动与社会实践	Labor and Social Practice	2.0	4周					BUCT	BUCT
	其他素质教育课程			7.0						BUCT	BUCT
				10.0							
<b>Total</b>				<b>184.0</b>							