

KIERUNEK STUDIÓW: **Mechanika i Budowa Maszyn**
 SPECJALNOŚĆ: **Konstrukcja i Eksploatacja Maszyn**
 POZIOM KSZTAŁCENIA: **studia drugiego stopnia**
 PROGRAM STUDIÓW: **W10-MBMP-000P-ONMW4**

OBOWIĄZUJE OD CYKLU KSZTAŁCENIA: **2023/24-L**
 FORMA STUDIÓW: **niestacjonarna**
 JĘZYK PROWADZENIA STUDIÓW: **polski**

Podstawy projektowania maszyn W10MBM-NM0013 K <table border="1"> <tr><td>W</td><td>C</td><td>L</td><td>P</td><td>S</td><td>D</td></tr> <tr><td>ECTS</td><td>2</td><td></td><td>1</td><td></td><td></td></tr> <tr><td>ZZU</td><td>20</td><td></td><td>10</td><td></td><td></td></tr> </table>	W	C	L	P	S	D	ECTS	2		1			ZZU	20		10				KURSY SPECJALIZACYJNE - BLOK I MBM-NM3W-KEM1 S <table border="1"> <tr><td>W</td><td>C</td><td>L</td><td>P</td><td>S</td><td>D</td></tr> <tr><td>ECTS</td><td>2</td><td></td><td>1</td><td></td><td></td></tr> <tr><td>ZZU</td><td>20</td><td></td><td>10</td><td></td><td></td></tr> </table>	W	C	L	P	S	D	ECTS	2		1			ZZU	20		10																																							
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Sterowanie maszyn i urządzeń W10MBM-NM0014 K E <table border="1"> <tr><td>W</td><td>C</td><td>L</td><td>P</td><td>S</td><td>D</td></tr> <tr><td>ECTS</td><td>2</td><td></td><td>2</td><td></td><td></td></tr> <tr><td>ZZU</td><td>20</td><td></td><td>20</td><td></td><td></td></tr> </table>	W	C	L	P	S	D	ECTS	2		2			ZZU	20		20			KURSY SPECJALIZACYJNE - BLOK I (wybór specjalizacji) MBM-NM2W-KEM1 S <table border="1"> <tr><td>W</td><td>C</td><td>L</td><td>P</td><td>S</td><td>D</td></tr> <tr><td>ECTS</td><td>1</td><td></td><td>2</td><td></td><td></td></tr> <tr><td>ZZU</td><td>10</td><td></td><td>20</td><td></td><td></td></tr> </table>	W	C	L	P	S	D	ECTS	1		2			ZZU	10		20			Podstawy diagnostyki i degradacji maszyn W10MBM-NM1027 S <table border="1"> <tr><td>W</td><td>C</td><td>L</td><td>P</td><td>S</td><td>D</td></tr> <tr><td>ECTS</td><td>2</td><td></td><td></td><td></td><td></td></tr> <tr><td>ZZU</td><td>20</td><td></td><td></td><td></td><td></td></tr> </table>	W	C	L	P	S	D	ECTS	2					ZZU	20																							
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Inżynieria powierzchni W10MBM-NM0018 K <table border="1"> <tr><td>W</td><td>C</td><td>L</td><td>P</td><td>S</td><td>D</td></tr> <tr><td>ECTS</td><td>1</td><td></td><td>1</td><td></td><td></td></tr> <tr><td>ZZU</td><td>10</td><td></td><td>10</td><td></td><td></td></tr> </table>	W	C	L	P	S	D	ECTS	1		1			ZZU	10		10			Maszyny technologiczne W10MBM-NM0021 K <table border="1"> <tr><td>W</td><td>C</td><td>L</td><td>P</td><td>S</td><td>D</td></tr> <tr><td>ECTS</td><td>2</td><td></td><td></td><td></td><td></td></tr> <tr><td>ZZU</td><td>20</td><td></td><td></td><td></td><td></td></tr> </table>	W	C	L	P	S	D	ECTS	2					ZZU	20					Praca przejściowa W10MBM-NM1031 S <table border="1"> <tr><td>W</td><td>C</td><td>L</td><td>P</td><td>S</td><td>D</td></tr> <tr><td>ECTS</td><td></td><td></td><td>2</td><td></td><td></td></tr> <tr><td>ZZU</td><td></td><td></td><td>30</td><td></td><td></td></tr> </table>	W	C	L	P	S	D	ECTS			2			ZZU			30			Inżynieria bezpieczeństwa W10MBM-NM1032 S <table border="1"> <tr><td>W</td><td>C</td><td>L</td><td>P</td><td>S</td><td>D</td></tr> <tr><td>ECTS</td><td>2</td><td></td><td></td><td></td><td></td></tr> <tr><td>ZZU</td><td>20</td><td></td><td></td><td></td><td></td></tr> </table>	W	C	L	P	S	D	ECTS	2					ZZU	20				
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"K" - Przedmiot kierunkowy "S" - Przedmiot specjalistyczny "E" - Wykład kończy się egzaminem
 W - wykład, C - ćwiczenia, L - laboratorium, P - projekt, S - seminarium, D - dzieło

BLOKI WYBIERALNE SPECJALNOŚCIOWE

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 JĘZYK PROWADZENIA STUDIÓW: **polski**

Blok wybier. 1 MBM-NM2W-KEM1	Projektowanie ustrojów nośnych maszyn roboczych W10MBM-NM1033 <table border="1"> <thead> <tr> <th></th> <th>W</th> <th>C</th> <th>L</th> <th>P</th> <th>S</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>ECTS</td> <td>1</td> <td></td> <td></td> <td>2</td> <td></td> <td></td> </tr> <tr> <td>ZZU</td> <td>10</td> <td></td> <td></td> <td>20</td> <td></td> <td></td> </tr> </tbody> </table>		W	C	L	P	S	D	ECTS	1			2			ZZU	10			20			Sterowanie hydraulicznych układów napędowych W10MBM-NM1035 <table border="1"> <thead> <tr> <th></th> <th>W</th> <th>C</th> <th>L</th> <th>P</th> <th>S</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>ECTS</td> <td>1</td> <td></td> <td></td> <td>2</td> <td></td> <td></td> </tr> <tr> <td>ZZU</td> <td>10</td> <td></td> <td></td> <td>20</td> <td></td> <td></td> </tr> </tbody> </table>		W	C	L	P	S	D	ECTS	1			2			ZZU	10			20			Nowoczesne techniki pomiarowe i diagnostyczne W10MBM-NM1037 <table border="1"> <thead> <tr> <th></th> <th>W</th> <th>C</th> <th>L</th> <th>P</th> <th>S</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>ECTS</td> <td>1</td> <td>2</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>ZZU</td> <td>10</td> <td>20</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		W	C	L	P	S	D	ECTS	1	2					ZZU	10	20					Diagnostyka i sterowanie silnikiem spalinowym W10MBM-NM1040 <table border="1"> <thead> <tr> <th></th> <th>W</th> <th>C</th> <th>L</th> <th>P</th> <th>S</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>ECTS</td> <td>1</td> <td>2</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>ZZU</td> <td>10</td> <td>20</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		W	C	L	P	S	D	ECTS	1	2					ZZU	10	20				
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 W - wykład, C - ćwiczenia, L - laboratorium, P - projekt, S - seminarium, D - dzieło

