

UNIVERSITY OF NYÍREGYHÁZA
 Institute of Technical and Agricultural Sciences
 Department of Transport Science and Infotechnology

Subject: BHR2018 Flight prep. II
 2025/2026 academic year II. semester
 Aeronautical Engineer Class III.

EDUCATIONAL PLAN

Number of teaching weeks: 14	Credit value of the subject: 5
Lecture: 3 hours per week, semester: 42 hours	Exercise: 3 hour per week, semester: 42 hours
Lecturer: Dénes Szilágyi PhD Associate Professor	Course leader: Dénes Szilágyi PhD Associate Professor

Form of assessment: practical grade
Number of classroom papers: 2 **Dates of classroom papers:** weeks 13 and 21

Required and recommended reading:

- Flight Planning and Monitoring BGS 2021
- Flight Performance and Planning 2 Oxford Aviation Services Ltd. 2020
- BCAA CAP 697
- JEPPESEN GSPRM Route Manual
- AIP Hungary
- Various Aircraft Flight Operations Manuals
- Flight Plan, meteorological charts, telegrams, NOTAMs, SNOWTAMs.

Students' work is assessed on the base of the following points system.

Attendance, disciplined behaviour and active work in class will be assessed according to the Study and Examination Regulations.

Hourly activity	10 points
Classroom paper 1 st	45 points
<u>Classroom paper 2nd</u>	<u>45 points</u>
The maximum score	100 points

To complete the semester, you need to achieve a minimum of 51% per task!

Nyíregyháza, 05. 02. 2026.

Edited:

Checked:

Dénes Szilágyi PhD
 subject coordinator

László Sikolya CSC
 Head of Department

Cal. week	Presentation subject	No. of hours	Exercise subject	No. of hours
7. A	Introduction, Distance & Speed, Aircraft loading	1-3	Calculation of NAM / NGM TAS /GS Using the slide graphic computer Repetition of knowledge of Aircraft Loading	1-3
8. B	Fuel Planning 033 03 01 01 Fuel planning (general) 033 03 02 00 Pre-flight fuel planning for commercial flights 033 03 02 01 Taxi fuel 033 03 02 02 Trip fuel 033 03 02 03 Reserve fuel and its components (alternate, final reserve, additional) 033 03 02 04 Extra fuel 033 03 02 05 Calculation of total fuel and completion of the fuel section of the navigation plan (fuel plan)	4-6	Using the different fuel schemes, methods for reducing contingency fuel	4-6
9. A	Information Sources	7-9	Gain and use of AIP, MET charts and textual information, NOTAMs	7-9
10. B	VFR Flight Planning, CAP 697 SEP, SEP VFR Flight 033 01 01 01 Airspace, communication, visual and radio-navigation data from VFR charts 033 01 01 02 Planning courses, distances and cruising levels with VFR charts 033 01 01 03 Aerodrome charts and aerodrome directory 033 01 01 05 Completion of navigation plan	10-12	Direction and distance measurements, detecting obstacles, determining safe altitudes	10-12
11. A	CAP 697 MEP, MEP VFR Flight	13-15	Interpretation and use of meteorological information in performance determination.	13-15
12. B	IFR Flight Planning, IFR Navigation Log 033 02 01 00 IFR navigation plan 033 02 01 01 Air traffic service (ATS) routes 033 02 01 02 Courses and distances from en-route charts 033 02 01 03 Altitudes 033 02 01 04 Standard instrument departure (SID) and standard instrument arrival (STAR) routes	16-18	Use of the marking system, determination of the flight path, use of meteorological information	16-18

Cal. week	Presentation subject	No. of hours	Exercise subject	No. of hours
	033 02 01 05 Instrument-approach charts 033 02 01 06 Communications and radio-navigation planning data 033 02 01 07 Completion of a manual navigation plan			
13. A	CAP 697 MRJT Simplified Planning, CAP 697 MRJT Detailed Planning	19-21	Classroom paper	19-21
14. B	MRJT IFR Flight Planning	22-24	Fuel calculation, using meteorological information in navigation calculations	22-24
15. A	Spring break	-	Spring break	-
16. B	Pre-Flight Planning, Monitoring the Flights Progress 033 04 01 00 Notice to airmen (NOTAM) briefing 033 04 01 02 Departure, destination and alternate aerodromes 033 04 01 03 Airway routings and airspace structure 033 04 01 04 Pre-flight preparation of GNSS achievability 033 04 02 02 Update of navigation plan using the latest meteorological information 033 04 02 05 Update of fuel plan 033 06 01 01 Monitoring of track and time 033 06 01 02 In-flight fuel management 033 06 02 01 Deviation from planned data	25-27	in-flight monitoring	25-27
17. A	Contingency Planning 033 03 03 01 Reduced contingency fuel procedure 033 03 03 02 Isolated aerodrome or heliport procedure 033 03 03 03 Predetermined-point procedure 033 03 03 04 Fuel-tankering	28-30	Using PET for different purposes, PSR	28-30
18. B	MRJT Non-Normal Operation	31-33	Gear down ferry flights, fuel tankering	31-33
19. A	Long Range Flight 033 04 03 01 Point of equal time (PET) 033 04 03 02 Point of safe return (PSR)	34-36	ETPS, polar flights	34-36
20. B	The ICAO Flight Plan 033 05 01 01 Format of FPL	37-39	FPL, RPL application and handling	37-39

Cal. week	Presentation subject	No. of hours	Exercise subject	No. of hours
	033 05 02 01 Repetitive flight plan (RPL)			
21 A	LRJT Flight Planning	40-42	Classroom paper	40-42