```sql
DELIMITER $$

CREATE PROCEDURE sp_saisir_repartition_hebdomadaire(
    IN p_affectation_id INT,
    IN p_numero_semaine INT,
    IN p_heures_semaine FLOAT,
    IN p_heures_distant FLOAT,
    OUT p_repartition_id INT
)
BEGIN
    DECLARE v_masse_totale FLOAT;
    DECLARE v_total_saisi FLOAT DEFAULT 0;
    DECLARE v_done INT DEFAULT FALSE;
    DECLARE v_heures FLOAT;
    DECLARE v_existe INT DEFAULT 0;

    DECLARE cur_semaines CURSOR FOR
        SELECT heures_semaine
        FROM RepartitionHebdomadaire
        WHERE affectation_module_id = p_affectation_id
        AND numero_semaine != p_numero_semaine;

    DECLARE CONTINUE HANDLER FOR NOT FOUND SET v_done = TRUE;
    DECLARE EXIT HANDLER FOR SQLEXCEPTION
    BEGIN
        ROLLBACK;
        SET p_repartition_id = -1;
    END;

    START TRANSACTION;

    SELECT COUNT(*) INTO v_existe
    FROM AffectationModule
    WHERE id = p_affectation_id;

    IF v_existe = 0 THEN
        SIGNAL SQLSTATE '45000'
```

```sql
        SET MESSAGE_TEXT = 'Affectation de module introuvable';
    END IF;


    SELECT m.masse_horaire_totale INTO v_masse_totale
    FROM AffectationModule am
    JOIN Module m ON am.module_id = m.id
    WHERE am.id = p_affectation_id;


    OPEN cur_semaines;
    read_loop: LOOP
        FETCH cur_semaines INTO v_heures;
        IF v_done THEN
            LEAVE read_loop;
        END IF;
        SET v_total_saisi = v_total_saisi + v_heures;
    END LOOP;
    CLOSE cur_semaines;


    IF (v_total_saisi + p_heures_semaine) > v_masse_totale THEN
        SIGNAL SQLSTATE '45014'
        SET MESSAGE_TEXT = 'La somme des heures dépasse la masse
horaire totale du module';
    END IF;


    IF p_heures_distant > p_heures_semaine THEN
        SIGNAL SQLSTATE '45001'
        SET MESSAGE_TEXT = 'Les heures en distanciel ne peuvent pas
dépasser les heures totales de la semaine';
    END IF;


    INSERT INTO RepartitionHebdomadaire (
        affectation_module_id,
        numero_semaine,
        heures_semaine,
        heures_distant
    ) VALUES (
        p_affectation_id,
```

```
        p_numero_semaine,
        p_heures_semaine,
        p_heures_distant
    );
    SET p_repartition_id = LAST_INSERT_ID();


    COMMIT;
END$$


DELIMITER ;
```