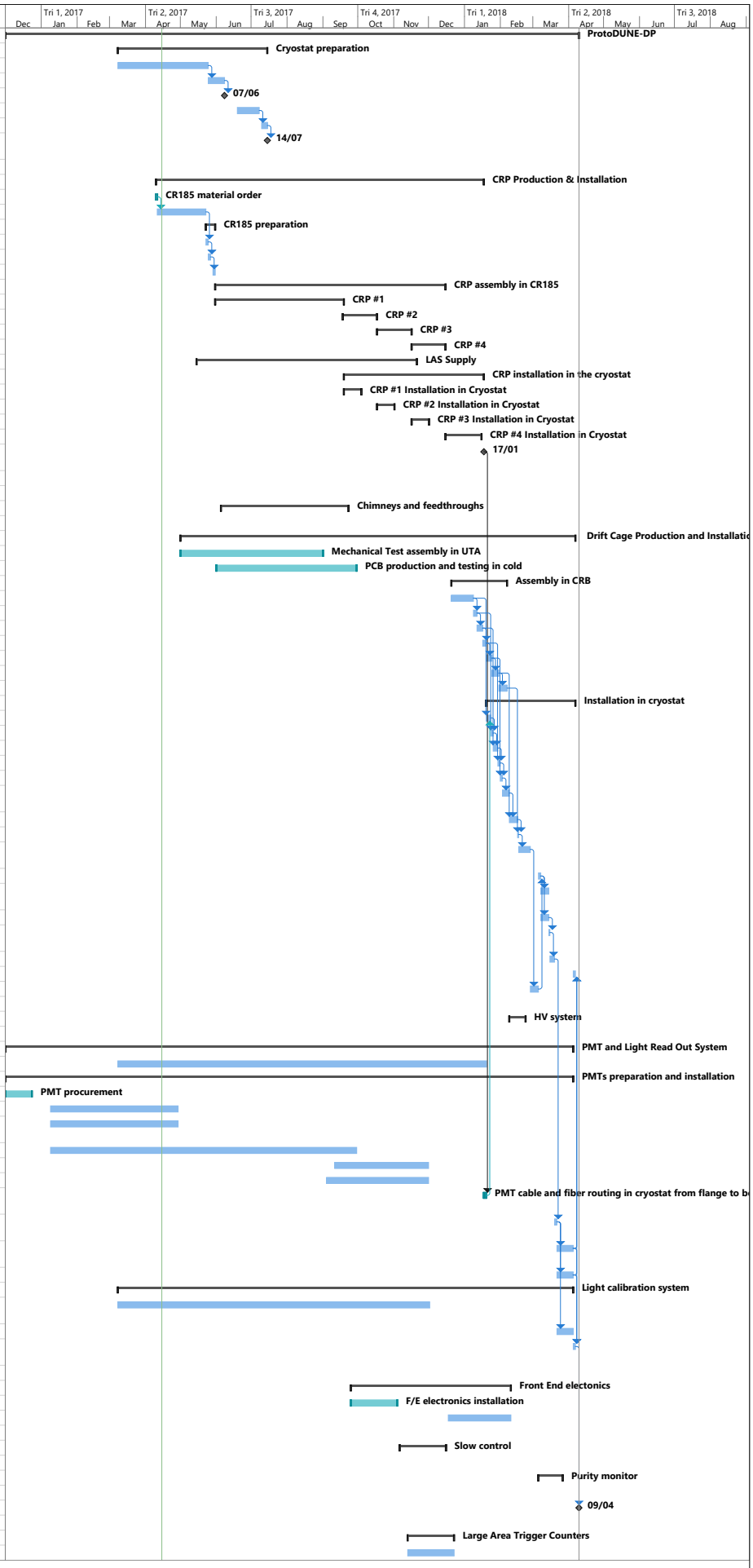
| N° | Task name | Duration (days) | Start date (dd//mm/yy) | Finish date (dd//mm/yy) |
|---|---|---|---|---|
| 1 | **ProtoDUNE-DP** | **343 days** | **01/12/2016** | **09/04/2018** |
| 2 | **Cryostat preparation** | **93 days** | **08/03/2017** | **14/07/2017** |
| 3 | Cryostat with penetrations is ready | 56 days | 08/03/2017 | 24/05/2017 |
| 4 | CRB and insertion rail preparation | 10 days | 25/05/2017 | 07/06/2017 |
| 5 | CRB ready | | 07/06/2017 | 07/06/2017 |
| 6 | Internal cryogenic piping | 15 days | 19/06/2017 | 07/07/2017 |
| 7 | Floor installation | 5 days | 10/07/2017 | 14/07/2017 |
| 8 | Cryostat is ready for CRP & SPFT installation | | 14/07/2017 | 14/07/2017 |
| 9 | | | | |
| 10 | **CRP Production & Installation** | **193 days** | **10/04/2017** | **17/01/2018** |
| 11 | CR185 material order | 1 day | 10/04/2017 | 10/04/2017 |
| 12 | Clean Room Material reception | 30 days | 11/04/2017 | 22/05/2017 |
| 13 | **CR185 preparation** | **6 days** | **23/05/2017** | **30/05/2017** |
| 14 | Furnishing integration | 2 days | 23/05/2017 | 24/05/2017 |
| 15 | Initial cleaning | 2 days | 25/05/2017 | 26/05/2017 |
| 16 | Toolings preparation | 2 days | 29/05/2017 | 30/05/2017 |
| 17 | **CRP assembly in CR185** | **143 days** | **31/05/2017** | **15/12/2017** |
| 18 | **CRP #1** | **79 days** | **31/05/2017** | **18/09/2017** |
| 31 | **CRP #2** | **21,57 days** | **18/09/2017** | **17/10/2017** |
| 44 | **CRP #3** | **21,57 days** | **17/10/2017** | **16/11/2017** |
| 57 | **CRP #4** | **21,57 days** | **16/11/2017** | **15/12/2017** |
| 70 | **LAS Supply** | **136 days** | **15/05/2017** | **20/11/2017** |
| 154 | **CRP installation in the cryostat** | **77 days** | **19/09/2017** | **17/01/2018** |
| 155 | **CRP #1 Installation in Cryostat** | **11 days** | **19/09/2017** | **03/10/2017** |
| 162 | **CRP #2 Installation in Cryostat** | **11 days** | **17/10/2017** | **01/11/2017** |
| 169 | **CRP #3 Installation in Cryostat** | **11 days** | **16/11/2017** | **01/12/2017** |
| 176 | **CRP #4 Installation in Cryostat** | **11 days** | **15/12/2017** | **15/01/2018** |
| 183 | CRP lateral position adjustment (warm conditions) | 2 days | 15/01/2018 | 17/01/2018 |
| 184 | | | | |
| 185 | | | | |
| 186 | **Chimneys and feedthroughs** | **80 days** | **05/06/2017** | **22/09/2017** |
| 194 | | | | |
| 195 | **Drift Cage Production and Installatior** | **235 days** | **01/05/2017** | **06/04/2018** |
| 196 | Mechanical Test assembly in UTA | 89 days | 01/05/2017 | 31/08/2017 |
| 197 | PCB production and testing in cold | 87 days | 01/06/2017 | 29/09/2017 |
| 198 | **Assembly in CRB** | **24 days** | **20/12/2017** | **06/02/2018** |
| 199 | 3 submodules of column 1 | 3 days | 20/12/2017 | 08/01/2018 |
| 200 | 3 submodules of column 2 | 3 days | 08/01/2018 | 11/01/2018 |
| 201 | 3 submodules of column 3 | 3 days | 11/01/2018 | 16/01/2018 |
| 202 | 3 submodules of column 4 | 3 days | 16/01/2018 | 19/01/2018 |
| 203 | 3 submodules of column 5 | 3 days | 19/01/2018 | 24/01/2018 |
| 204 | 4 submodules of column 6 and 7 | 4 days | 24/01/2018 | 30/01/2018 |
| 205 | 5 submodules to install last | 5 days | 30/01/2018 | 06/02/2018 |
| 206 | **Installation in cryostat** | **55 days** | **19/01/2018** | **06/04/2018** |
| 207 | Assemble First column | 2 days | 19/01/2018 | 23/01/2018 |
| 208 | Assemble Second column | 2 days | 23/01/2018 | 25/01/2018 |
| 209 | Assemble Third column | 2 days | 25/01/2018 | 29/01/2018 |
| 210 | Assemble Fourth column | 2 days | 29/01/2018 | 31/01/2018 |
| 211 | Assemble Fifth column | 2 days | 31/01/2018 | 02/02/2018 |
| 212 | Fix clips and contacting dividers and reinforcements | 4 days | 02/02/2018 | 08/02/2018 |
| 213 | Assemble 2/3 of columns 6 and 7 | 5 days | 08/02/2018 | 15/02/2018 |
| 214 | Bring last 5 submodules on the si | 1 days | 15/02/2018 | 16/02/2018 |
| 215 | Bring and assemble cathode and GND grid modules | 6 days | 16/02/2018 | 26/02/2018 |
| 216 | Remove Crane I-Beam inside the | 2 days | 05/03/2018 | 07/03/2018 |
| 217 | Install 4 of the last FC submodules + missing | 5 days | 07/03/2018 | 14/03/2018 |
| 218 | HVFT and degraders | 5 days | 07/03/2018 | 14/03/2018 |
| 219 | connect cathode and ground grid to the FC | 1 day | 14/03/2018 | 15/03/2018 |
| 220 | Remove floor and scaffoldings | 2 days | 15/03/2018 | 19/03/2018 |
| 221 | Lower the ground grid | 2 days | 04/04/2018 | 06/04/2018 |
| 222 | Beam plug installation | 5 days | 26/02/2018 | 05/03/2018 |
| 223 | | | | |
| 224 | **HV system** | **10 days** | **08/02/2018** | **22/02/2018** |
| 226 | | | | |
| 227 | **PMT and Light Read Out System** | **340 days** | **01/12/2016** | **04/04/2018** |
| 228 | LRO electronics | 218 days | 08/03/2017 | 19/01/2018 |
| 229 | **PMTs preparation and installation** | **340 days** | **01/12/2016** | **04/04/2018** |
| 230 | PMT procurement | 17 days | 01/12/2016 | 23/12/2016 |
| 231 | PMT base design and manufactur | 80 days | 09/01/2017 | 28/04/2017 |
| 232 | PMT support structure production and assembly | 81 days | 09/01/2017 | 28/04/2017 |
| 233 | PMTs characterization | 190 days | 09/01/2017 | 29/09/2017 |
| 234 | TPB coating | 59 days | 11/09/2017 | 30/11/2017 |
| 235 | Splitter production and tests | 64 days | 04/09/2017 | 30/11/2017 |
| 236 | PMT cable and fiber routing in cryostat from flange to bottom | 2 days | 17/01/2018 | 19/01/2018 |
| 237 | PMT support installation on the membrane | 2 days | 19/03/2018 | 21/03/2018 |
| 238 | PMT testing, installation in cryostat and cabling | 10 days | 21/03/2018 | 04/04/2018 |
| 239 | Splitter installation | 10 days | 21/03/2018 | 04/04/2018 |
| 240 | **Light calibration system** | **271 days** | **08/03/2017** | **04/04/2018** |
| 241 | Fibers, light source tests and procurement | 193 days | 08/03/2017 | 01/12/2017 |
| 242 | Fiber calibration system installati | 10 days | 21/03/2018 | 04/04/2018 |
| 243 | Lower the Ground grid to its final position | 2 days | 04/04/2018 | 06/04/2018 |
| 244 | | | | |
| 245 | **Front End electonics** | **90 days** | **25/09/2017** | **09/02/2018** |
| 246 | F/E electronics installation | 30 days | 25/09/2017 | 03/11/2017 |
| 247 | microTCA installation | 30 days | 18/12/2017 | 09/02/2018 |
| 248 | | | | |
| 249 | **Slow control** | **30 days** | **06/11/2017** | **15/12/2017** |
| 251 | | | | |
| 252 | **Purity monitor** | **15 days** | **05/03/2018** | **26/03/2018** |
| 254 | | | | |
| 255 | Ready to seal TCO & cryostat | 1 day | 06/04/2018 | 09/04/2018 |
| 256 | | | | |
| 257 | **Large Area Trigger Counters** | **30 days** | **13/11/2017** | **22/12/2017** |
| 258 | Installation | 30 days | 13/11/2017 | 22/12/2017 |




Projet : ProtoDUNE-DP-eng15
Date : 15/04/2017